CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 15, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Mar.				
*15	Canal	Oregon	P. & S.	2- 8
15	Vit. pipe sewers	Woodstock, Vt.	S. & B. S.	3- 1
*16	Cement	Los Angeles, Cal.	S. & B. S.	2-15
16	Breakwater	Cleveland, O.	S.	3- 8
*17	Pump house, etc.	wash., D. C.	S.	2-22
*19	Sand filters	Springfield, Mass.	P. & S.	3- 1
*20	Sewers	Apalachicola, Fla.	S.	2-22
*20	Water system	Apalachicola, Fla.	S.	2-22
*22	Crematory, etc.	Oswego, N. Y.	P. S. & B. S.	3- 1
24	Turbo alternators	New York	S.	3- 1
*30	Bridge	Port Huron, Mich.	P. & S.	2-15
*30	Lock gates	Pittsburg, Pa.	S. & B. S.	3- 1
31	Power house	New Orleans, La.	S.	3- 8
31	Timber wharf	Bremerton, Wash.	S.	3- 1
31	Power plant	New York	S.	3- 1
31	Quay wall, Bremerton, Wash.		S.	2-15
Apr.				
*1	Garbage disposal	Auburn, N.Y.	S.	2-22
*2	Dredging	Philadelphia, Pa.	S.	3-15
*2	Port works	Chile	P. & S.	5- 4
2	Paving	Green Bay, Wis.	S. & B. S.	3- 8
3	Suction dredges	Panama	S. & B. S.	3-15
5	Wharves	Manila, P. I.	P. & S.	12-14
7	R. R. track scale	Portsmth, N.H.	S.	3- 8
*9	Wharf	Guantanamo, Cuba	P. & S.	2-22
12	Cement	Glendive, Mont.	S.	3- 8
*12	Dam	Carlsbad, N. Mex.	S.	3- 8
16	Light & power plant,	New York	P. S. & B. S.	2-22
May				
4	Wharf sheds & Rys.	Manila, P. I.	P. & S.	3- 1
—	Steel, etc.	Glendive, Mont.	P. & S.	2- 8

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	On file.	See issue.
	LIGHT, HEAT AND POWER PLANTS.			
Mar. 15	Electric light plant,	Bamberg, S. C.	Mar.	1
Mar. 17	Power house,	West Point, N. Y.	Mar.	8
Mar. 18	Light & power plant,	Warrensville, O.	Mar.	8
Mar. 20	Steam purifiers,	Chicago, Ill.	Mar.	8
Mar. 20	Light and power plant,	Chatham, N. B.	Mar.	15
Mar. 24	Power plant,	New York, N. Y.	Mar.	8
Mar. 31	Power house,	New Orleans, La.	Mar.	8
Apr. 4	Transmission line poles,	Chicago, Ill.	Feb.	8
	Advertised, Eng. News, Feb. 8.			
Apr. 9	Light & power plant,	Fullerton, Cal.	Mar.	1
Apr. 16	Light & power plant,	New York, N. Y.	Feb.	22
No date	Gas pipe line,	Cincinnati, O.	Feb.	15
No date	Power plant,	Goodwater, Ala.	Mar.	1
July 5	Water power for sale,	Kenora, Ont.	Mar.	15
	Advertised, Eng. News, Mar. 15.			
	BRIDGES.			
Mar. 19	Bridge,	Henrietta, Tex.	Mar.	8
Mar. 19	Bridge, culvert,	Boston, Mass.	Mar.	15
Mar. 19	Bridge,	Summerville, Ga.	Mar.	15
Mar. 20	Bridges,	Madison, Neb.	Mar.	8
Mar. 22	Bridges,	Trinidad, Colo.	Mar.	8
Mar. 22	Bridge,	Gettysburg, Pa.	Mar.	15
Mar. 23	Bridge,	New York, N. Y.	Mar.	15
Mar. 23	Bridges,	Bryan, O.	Mar.	8
Mar. 29	Superstructure,	Dayton, O.	Mar.	15
Mar. 30	Viaduct,	Columbus, O.	Mar.	15
Mar. 30	Bridge,	Port Huron, Mich.	Feb.	15
	Advertised, Eng. News, Feb. 15 to Mar. 15.			
Mar. 31	Bridge,	Custer, S. Dak.	Jan.	25
Apr. 2	Concrete bridges,	Frankfort, Ind.	Mar.	15
Apr. 3	Bridges,	Grand Forks, N. Dak.	Mar.	15
Apr. 3	Bridges,	Crawfordsville, Ind.	Mar.	15
Apr. 3	Bridge,	Colfax, Wash.	Mar.	1
Apr. 4	Bridge,	Nevada City, Cal.	Feb.	15
Apr. 4	Concrete bridge,	Denver, Colo.	Mar.	15
	Advertised, Eng. News, Mar. 15 and 22.			
Apr. 6	Bridges,	Goldendale, Wash.	Mar.	8
Apr. 10	Steel bridge,	Coeur D'Alene, Idaho	Mar.	15
Apr. 30	Iron draw-bridge,	Belzona, Miss.	Mar.	15
	Advertised, Eng. News, Mar. 15 to Apr. 19.			
	BUILDINGS.			
Mar. 15	School,	Orange, N. J.	Mar.	8
Mar. 15	Court-house,	Ashland, Ala.	Mar.	8
Mar. 15	Heating,	Ogden, Utah	Feb.	22
	Advertised, Eng. News, Feb. 22 and Mar. 1.			
Mar. 15	Church,	Zanesville, O.	Feb.	1
Mar. 15	School,	Cooperstown, N. Y.	Mar.	1
Mar. 15	Building, heating,	Lawrence, Kan.	Mar.	1
Mar. 19	Additions, schools,	New York, N. Y.	Mar.	8
Mar. 19	Heating and ventilating app.,	New York	Mar.	8
Mar. 20	Theater,	Memphis, Tenn.	Mar.	1
Mar. 20	Structural material,	New York, N. Y.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 15.			
Mar. 20	Building,	Milledgeville, Ga.	Mar.	15
Mar. 22	Vacuum clean'g sys.,	Washington, D. C.	Mar.	8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 22	Building wing,	New York, N. Y.	Mar.	15
Mar. 22	Boat house,	New York, N. Y.	Mar.	15
Mar. 24	Church, parish house,	Wilkes-Barre, Pa.	Mar.	15
Mar. 26	Court-house,	Fresno, Cal.	Feb.	15
Mar. 27	School,	Madison, Wis.	Mar.	1
Mar. 29	Schools,	Boston, Mass.	Mar.	15
Mar. 30	School,	Fullerton, Cal.	Feb.	22
Apr. 1	Laundry,	Warren, O.	Feb.	22
Apr. 2	Marble, mosaic, tile work,	Chicago, Ill.	Mar.	15
Apr. 3	Building,	Pierre, S. Dak.	Feb.	15
Apr. 3	Jail,	Mobile, Ala.	Mar.	8
Apr. 5	Court-house,	Newton, Kan.	Mar.	15
Apr. 10	Buildings,	New York, N. Y.	Mar.	15
Apr. 14	Lighting fixtures,	Cheyenne, Wyo.	Mar.	15
	Advertised, Eng. News, Mar. 15 to 29, Apr. 12			
	WATER SUPPLY AND IRRIGATION.			
Mar. 15	Water system,	New York, N. Y.	Mar.	8
May 15	Water pipe,	New Orleans, La.	Mar.	8
	Advertised, Eng. News, Mar. 8.			
Mar. 17	Water-works plant,	Arcadia, Fla.	Feb.	22
	Advertised, Eng. News, Feb. 22 to Mar. 15.			
Mar. 16	Water pipe,	Ballinger, Tex.	Mar.	15
Mar. 16	Artesian well,	Galesburg, Ill.	Mar.	15
	Advertised, Eng. News, Mar. 15.			
Mar. 17	Water-works extension,	Nampa, Idaho	Mar.	15
Mar. 17	Pump house, machinery,	Wash., D. C.	Feb.	22
	Advertised, Eng. News, Feb. 15 and 22.			
Mar. 19	Sand filters,	Springfield, Mass.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 15.			
Mar. 19	Water-works,	Glendive, Mont.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 15.			
Mar. 20	Concrete conduit,	Dallas, Tex.	Mar.	1
	Advertised, Eng. News, Mar. 1 and 8.			
Mar. 20	Water system,	Apalachicola, Fla.	Feb.	22
	Advertised, Eng. News, Feb. 22 and Mar. 1.			
Mar. 20	Pipe, etc.,	Edmonton, Alta.	Mar.	8
	Advertised, Eng. News, Mar. 8.			
Mar. 21	Water-works,	Donaldsonville, La.	Mar.	1
Mar. 21	Water-works impvts.,	Donaldson, Miss.	Mar.	8
Mar. 21	Valves and hydrants,	Atlanta, Ga.	Mar.	8
Mar. 21	Water-works,	Chickasha, Ind. T.	Mar.	8
Mar. 21	Water system,	Marlow, Ind. T.	Mar.	1
	Advertised, Eng. News, Mar. 1 and 8.			
Mar. 23	Laying cast-iron pipe,	Cincinnati, O.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 15.			
Mar. 23	Water system,	Belle Plain, Ind.	Mar.	1
Mar. 23	Water-works materials,	Altoona, Pa.	Mar.	15
Mar. 25	Water system,	Wynnewood, Ind. T.	Mar.	15
Mar. 25	Pipe and valves,	Boulder, Colo.	Mar.	8
Mar. 26	Pipe, meters, etc.,	Winnipeg, Man.	Mar.	8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 26	Cast-iron pipe,	East Orange, N. J.	Mar.	15
Mar. 26	Pipe line,	Utica, N. Y.	Mar.	15
	Advertised, Eng. News, Mar. 15.			
Mar. 27	Water system,	Ft. Washington, Md.	Mar.	15
Mar. 27	Water-works & sewer sys.,	Franklin, Va.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 29	Pipe, etc.,	Detroit, Mich.	Mar.	15
	Advertised, Eng. News, Mar. 15 and 22.			
Apr. 3	Steel tank,	Philippine Islands	Mar.	15
Apr. 11	Intake pipe,	Auburn, N. Y.	Mar.	15
	Advertised, Eng. News, Mar. 15 to Apr. 4.			
Apr. 11	Water mains,	Salt Lake City, Utah	Mar.	15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 14	Sewer & water systems,	Honolulu, H. T.	Mar.	15
Apr. 16	Filter extension,	Columbus, Ind.	Mar.	15
	SEWERAGE.			
Mar. 15	Sewer system,	Mount Carmel, Pa.	Mar.	1
	Advertised, Eng. News, Mar. 1 and 8.			
Mar. 15	Sewer,	Woodstock, Vt.	Mar.	1
Mar. 15	Sewers,	New York, N. Y.	Mar.	8
Mar. 15	Sewers,	Paterson, N. J.	Mar.	15
Mar. 16	Sewers,	Louisville, Ky.	Mar.	15
Mar. 16	Sewer,	Lebanon, O.	Mar.	1
Mar. 17	Sewer,	Ashtabula, O.	Mar.	15
Mar. 19	Sewers,	Perth Amboy, N. J.	Mar.	15
Mar. 19	Sewers,	Menominee, Mich.	Mar.	15
Mar. 19	Sewers,	Washington, D. C.	Mar.	1
	Advertised, Eng. News, Mar. 1 and 8.			
Mar. 19	Sewer system,	Oklahoma City, Okla.	Mar.	1
Mar. 19	Sewers,	Cobleskill, N. Y.	Feb.	22
Mar. 19	Sewerage,	Fresno, Cal.	Mar.	8
Mar. 20	Sewers,	Apalachicola, Fla.	Feb.	22
	Advertised, Eng. News, Feb. 22 and Mar. 1.			
Mar. 20	Sewerage,	Camden, N. J.	Mar.	1
Mar. 21	Sewers,	Altoona, Pa.	Mar.	15
Mar. 21	Sewer,	Youngstown, O.	Mar.	15
Mar. 22	Sewers,	Cambridge, O.	Mar.	15
Mar. 24	Sewers,	Murphysboro, Ill.	Mar.	15
Mar. 25	Sewers,	Green Bay, Wis.	Feb.	22
Mar. 27	Sewer system,	Franklin, Va.	Mar.	8
Mar. 29	Sewers,	Boston, Mass.	Mar.	15
	Advertised, Eng. News, Mar. 15 and 22.			
Mar. 30	Brick sewers,	Mt. Clemens, Mich.	Mar.	15
Mar. 31	Sewerage,	Erie, Pa.	Mar.	8
Apr. 3	Storm sewer,	Chillicothe, O.	Mar.	15
Apr. 11	Pipe sewers,	Salt Lake City, Utah	Mar.	15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 11	Sewers,	Georgetown, Ky.	Mar.	8
	Advertised, Eng. News, Mar. 8.			
Apr. 15	Sewers,	Pensacola, Fla.	Mar.	8
	Advertised, Eng. News, Mar. 8, 15, 22 and 29.			
May 8	Sewers,	New Orleans, La.	Mar.	8
	Advertised, Eng. News, Mar. 8 to May 3.			
	STREETS AND ROADS.			
Mar. 15	Brick paving,	Corning, N. Y.	Feb.	22
	Advertised, Eng. News, Feb. 22 and Mar. 1.			
Mar. 15	Road,	Peekskill, N. Y.	Feb.	8
	Advertised, Eng. News, Feb. 8.			
Mar. 15	Curbing,	Watervliet, N. Y.	Mar.	15
Mar. 15	Sidewalks,	Newton, Mass.	Mar.	15
Mar. 16	Asphalt resurfacing,	Minneapolis, Minn.	Mar.	15
Mar. 16	Grading,	Middletown, O.	Mar.	15
Mar. 16	Vitrified brick paving,	Sheboygan, Wis.	Mar.	15
Mar. 16	Paving,	Spartanburg, S. C.	Mar.	1
	Advertised, Eng. News, Mar. 1 and 8.			
Mar. 17	Grading and macadamizing,	Shelby, Mich.	Mar.	1
Mar. 17	Macadam roads,	Plainville, Conn.	Mar.	15
Mar. 17	Grading,	Lincoln, Neb.	Mar.	15
Mar. 19	Paving,	Bay City, Mich.	Mar.	15
Mar. 19	Paving,	Cobleskill, N. Y.	Feb.	22
Mar. 19	Grading,	Des Moines, Ia.	Mar.	8
Mar. 19	Macadam,	Delaware, O.	Mar.	8
Mar. 19	Paving,	Menominee, Mich.	Mar.	1
Mar. 20	Paving,	Alexandria, La.	Mar.	8
Mar. 20	Paving,	Lake Charles, La.	Feb.	22
Mar. 21	Paving and grading,	Youngstown, O.	Mar.	15
Mar. 22	Road work,	Seattle, Wash.	Mar.	8
Mar. 22	Paving,	Harlem, Ill.	Mar.	15
Mar. 22	Paving,	Edwardsville, Ill.	Mar.	15
Mar. 22	Curbing and paving,	Cambridge, O.	Mar.	15
Mar. 23	Grading and paving,	New York, N. Y.	Mar.	15
Mar. 23	Sidewalks,	Des Moines, Ia.	Mar.	15
Mar. 24	Macadam roads,	Youngstown, O.	Mar.	15
Mar. 24	Road improvements,	East Hampton, N. Y.	Mar.	15
Mar. 24	Paving, Grand Rapids,	Mich.	Mar.	15
Mar. 25	Paving, Grand Rapids,	Mich.	Mar.	8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 26	Paving,	Fargo, N. Dak.	Mar.	15
Mar. 27	Asphalt,	Winnipeg, Man.	Mar.	8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 28	Paving,	El Paso, Tex.	Mar.	8
Mar. 29	Paving,	Ft. Wayne, Ind.	Mar.	15
Apr. 2	Road,	Leavenworth, Wash.	Feb.	8
Apr. 2	Asphalt paving,	Green Bay, Wis.	Mar.	8
Apr. 4	Grading,	Newburg, O.	Mar.	15
Apr. 11	Cement sidewalks,	Salt Lake City, Utah	Mar.	15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 11	Grading & paving,	Salt Lake City, Utah	Mar.	15
	Advertised, Eng. News, Mar. 15 to 29.			
	MISCELLANEOUS CONTRACTS.			
Mar. 15	Canal,	Oregon	Feb.	8
	Advertised, Eng. News, Feb. 8.			
Mar. 15	Rehandling machine,	Philadelphia, Pa.	Feb.	15
	Advertised, Eng. News, Feb. 15 to Mar. 8.			
Mar. 15	Railway,	Wisconsin Rapid Transit Co.	Feb.	15
Mar. 15	Refuse destructor,	Transvaal (Foreign)	Mar.	8
Mar. 15	Dredging,	Boston, Mass.	Mar.	8
	Advertised, Eng. News, Mar. 8.			
Mar. 16	Cement,	Los Angeles, Cal.	Feb.	15
	Advertised, Eng. News, Feb. 15 to Mar. 8.			
Mar. 16	Breakwater,	Cleveland, O.	Mar.	1
Mar. 19	Ditch,	Centerville, Ia.	Mar.	8
Mar. 19	Supplies,	Panama	Mar.	15
Mar. 20	Concrete wall,	Newark, N. J.	Mar.	15
	Advertised, Eng. News, Mar. 15.			
Mar. 20	Gravity yard,	Peoria & Pekin Union Ry.	Mar.	8
	Advertised, Eng. News, Mar. 1.			
Mar. 21	Concrete wall,	Kansas City, Mo.	Mar.	15
Mar. 22	Sprinkling,	New York, N. Y.	Mar.	15
Mar. 22	R. R. tunnel,	Detroit, Mich.	Mar.	1
Mar. 22	Garbage crematory,	Oswego, N. Y.	Feb.	22
	Advertised, Eng. News, Feb. 22 to Mar. 15.			
Mar. 23	Ditch,	Anoka, Minn.	Mar.	15
Mar. 26	Piers, sheds,	Brunswick, Ga.	Mar.	15
	Advertised, Eng. News, Mar. 15 and 22.			
Mar. 27	Concrete mixing machine,	Winnipeg, Man.	Mar.	15
	Advertised, Eng. News, Mar. 15.			
Mar. 27	Dump cars,	Winnipeg, Man.	Mar.	15
	Advertised, Eng. News, Mar. 15.			
Mar. 27	3,000 tons asphalt,	Winnipeg, Man.	Mar.	15
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 27	Cement,	Wheeling, W. Va.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 28	Dredging,	New Orleans, La.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 28	Drain,	Knoxville, Ia.	Mar.	8
Mar. 30	Spillway,	San Francisco, Cal.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 30	Lock gates,	Pittsburg, Pa.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 30	Slip,	Honolulu, H. I.	Mar.	1
Mar. 30	Railroad tunnel, etc.,	Morehead & North Fork R R	Mar.	15
	Advertised, Eng. News, Mar. 15.			
Mar. 31	Timber wharf,	Bremerton, Wash.	Mar.	1
Mar. 31	Dredging,	New London, Conn.	Mar.	1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 31	Ditch, etc.,	Lewiston, Idaho	Mar.	1
	Advertised, Eng. News, Mar. 1 to 29.			
Mar. 31	Quay wall,	Bremerton, Wash.	Feb.	15
Apr. 1	Garbage disposal,	Auburn, N. Y.	Feb.	22
	Advertised, Eng. News, Feb. 22 to Mar. 8.			
Apr. 1	Incinerating plant,	Tampa, Fla.	Mar.	15
	Advertised, Eng. News, Mar. 15 and 22.			
Apr. 2	Levee,	Piggott, Ark.	Mar.	15
Apr. 2	Dredging,	Philadelphia, Pa.	Mar.	15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 2	Air compressors, etc.,	Pittsburg, Pa.	Mar.	15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 2	Port works,	Chile (Foreign)	May	4
	Advertised, Eng. News, April 1, 1906.			
Apr. 2	Ditch,	Muscatine, Ia.	Mar.	8
Apr. 3	Ditch,	Spirit Lake, Ia.	Jan.	18
Apr. 3	Suction dredges,	Panama	Mar.	15
Apr. 4	Ditch,	Vermillion, S. Dak.	Mar.	15
Apr. 4	Dredging,	Washington, D. C.	Mar.	8
Apr. 5	Wharves,	Manila, P. I.	Dec.	14
Apr. 7	R. R. track scale,	Portsmouth, N. H.	Mar.	8
Apr. 9	Wharf,	Guantanamo, Cuba	Feb.	22
	Advertised, Eng. News, Feb. 15 and 22.			
Apr. 9	Street signs,	Schenectady, N. Y.	Mar.	1
	Advertised, Eng. News, Mar. 1.			
Apr. 9	Electric railroad,	San Francisco, Cal.	Mar.	15
Apr. 10	Dam, cribs, etc.,	Cincinnati, O.	Mar.	15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
Apr. 12	Canal,	Glendive, Mont.	Mar.	15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
Apr. 12	Cement,	Glendive, Mont.	Mar.	8
Apr. 12	Main canal,	Glendive, Mont.	Mar.	8
	Advertised, Eng. News, Mar. 8 to 29.			
Apr. 12	Dam,	Carlsbad, N. Mex.	Mar.	8
	Advertised, Eng. News, Mar. 8.			
Apr. 16	Main canal,	Boise, Idaho	Mar.	8
	Advertised, Eng. News, Mar. 8 to 29.			
Apr. 19	Irrigation ditches,	Hazen, Nev.	Mar.	15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
May 1	Steel dock,	Chile (Foreign)	Nov.	9
May 2	Telephone system,	Salt Lake City, Utah	Mar.	15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
May 4	Wharf sheds & Rys.,	Manila, P. I.	Mar.	1
	Advertised, Eng. News, Mar. 15 to 29.			
No date	Brick, terra cotta,	Lowell, Mass.	Mar.	1
	Advertised, Eng. News, Mar. 1.			
No date	Cement,	Chicago, Ill.	Mar.	15
	Advertised, Eng. News, Mar. 15.			
	CIVIL SERVICE EXAMINATIONS.			
Mar. 15	Arch. Draftsman,	New York, N. Y.	Mar.	1
Mar. 17	Architectural Designer,	Albany, N. Y.	Feb.	22
Mar. 17	Asst. Engineer,	Albany, N. Y.	Feb.	22
Mar. 17	Auditor, Highway Accts.,	Albany, N. Y.	Feb.	22
Mar. 17	Bldg. Inspector,	Albany, N. Y.	Feb.	22
Mar. 17	Chief Engineer,	Albany, N. Y.	Feb.	22
Mar. 17	Highway Insp.,	Albany, N. Y.	Feb.	22
Mar. 19	Ch. Harbor Engr.,	Chicago, Ill.	Mar.	15
Mar. 21	Topographic Dftsman,	Washington, D. C.	Feb.	22
Mar. 21	Arch. Draftsman,	New York, N. Y.	Mar.	1
Mar. 21	Surveyor,	Philippine Service	Mar.	1
Mar. 21	C. E. Student,	Washington, D. C.	Mar.	1
Mar. 21	Scientific Asst.,	Washington, D. C.	Mar.	8
Mar. 28	Topographic Dftsman,	St. Louis, Mo.	Mar.	8
Apr. 18	Scientific Asst.,	Washington, D. C.	Mar.	1
Apr. 18	Arch. Draftsman,	New York, N. Y.	Mar.	15
Apr. 25	Arch. Draftsman,	New York, N. Y.	Mar.	15
No date	Master Electricians,	Ft. Totten, N. Y.	Mar.	15
	Advertised, Eng. News, Mar. 15 and 22.			

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATLANTA & ST. ANDREWS BAY.—Contract for grading the line between Cottondale, Fla., and St. Andrews Bay, 55 miles, probably will be let within the next two months. A. B. Steele, Pres., Atlanta, Ga., announces that this company, which is chartered in Alabama and Florida, is now being built from Dothan, Ala., to St. Andrews Bay, on the Gulf of Mexico, about 85 miles. Grading is completed from Dothan to Cottondale, Fla., about 31 miles. Track is being laid at the rate of half a mile per day. After this part of the line is completed it is expected to build from Dothan, Ala., via Clayton and Hurtsboro direct to Opelika, Ala., about 100 miles. It is then expected to file a charter in Georgia for an extension from Opelika to Atlanta. G. H. Purvis, of Atlanta, Vice-Pres. and Secy; Ben W Steele, Second Vice-Pres. and Assistant Manager, and P. J. Domer, Ch. Engr. and Gen. Supt., both of Dothan, Ala.

BALTIMORE & OHIO.—Announcement is made that this company will make improvements in the Pittsburg district, including new terminals and freight station, at a cost of $2,000,000, instead of $500,000, as originally intended. Other improvements are to be made along the line of its road in the same district.

BROWNSVILLE, HIDALGO & NORTHERN.—We are officially advised that this company is now at work securing right-of-way and making surveys for its proposed line from Brownsville, Tex., to Hidalgo, Houston and San Antonio, Tex. Uriah Lott is Pres. and M. H. Henman is Ch. Engr., at Brownsville, Tex.

BURR'S FERRY, BROWNDEL & CHESTER.—J. Randolph Burns, Secy. and Treas. of this company, at Houston, Tex., has received completed plans and specifications for the portion of the line between Rockland and Aldridge, about eight miles, and contract will be let immediately. More than 100,000 cu. yds. of earth wil be moved. Bids are being received, and Philip G. Omohundro, Ch. Engr., at Beaumont, Tex., will award contract at once. The entire line will be from Burr's Ferry to Chester, about 80 miles, and survey is under way between Aldridge and Browndel. See item in issue of March 1.

CHICAGO, ST. PAUL, MINNEAPOLIS & OMAHA.—The contract for building a branch from Hartington north to Crofton, Neb., about 15½ miles, has been awarded to PETERSON & LAMEROUX, of Omaha, Neb. C. W. Johnson, St. Paul, Minn., is Ch. Engr.

COAL RIVER.—The contract for building the extension from the mouth of Camp Creek, in West Virginia, to Spruce and Laurel Forks, 27 miles, has been awarded to CARPENTER, FRAZER & HALEY, of Richmond, Va. C. K. McDermott is Gen. Supt., St. Albans, W. Va.

CANADIAN SOUTHERN.—Company has been incorporated in South Dakota to build a railroad from Winnipeg, Man., through North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, to Galveston, Tex. Capital stock, $50,000,000. Incorporators: E. A. Hill, Galveston, Tex.; F. E. Gilligan, Highmore; A. P. Sawyer, Elias Jacobson and others, of Pierre, S. Dak., where the general offices are to be located.

COPPER RIVER & TELKWA.—Under this name a company has applied for a charter to build a railroad from the mouth of the Copper River, in British Columbia, to the mouth of the Telkwa River, about 210 miles. H. D. Lawson, E. V. Bodwell and James H. Lawson, all of Victoria, B. C., are interested.

MISSOURI, KANSAS & TEXAS.—At a recent stockholders' meeting it was decided to issue $20,000,000 of 4½% bonds for improvements and new construction. S. B. Fisher is Ch. Engr., at St. Louis, Mo.

CHICAGO, MILWAUKEE & ST. PAUL.—The contract for grading the line between Omaha, Neb., and Marion, Ia., has been awarded to ROBINSON & JEFFREY, of St. Louis, Mo. There are to be excavated about 800,000 cu. yds. of material.

CANADIAN PACIFIC.—Sir Thomas G. Shaughnessy, Pres., Montreal, Que., has announced that a special meeting of the shareholders of the Canadian Pacific Railway Co. is to be held in Montreal on March 19 for the purpose of considering and acting upon the recommendation of the directors that the ordinary share capital of the company be increased from the present authorized amount of $110,000,000, of which the amount of $101,000,000 has already been issued, to $150,000,000. In view of the great increase in the company's business and its continual expansion, it is desirable that immediate provision be made for still further increasing its facilities.

CHESAPEAKE & OHIO.—This company will immediately begin construction of 16 miles of double track east of Richmond, Va., besides ten miles between Hawks Nest and Huntington, W. Va., and 15 miles between Huntington and Cincinnati, O. It will also begin building 20 miles of branch line up Potts Creek from Covingtop, Va. H. Pierce is Engineer of Construction, at Richmond, Virginia.

DAWSON, GRAND FORKS & STEWART RIVER.—This company, incorporated in England, with a capital of $2,500,000, to own and operate the Klondike Mines Railway Co., of Canada, has filed a mortgage on the completed road from Klondike City and Dawson to Sulphur Springs, about 30 miles. This section is to be completed in October, 1906. The road is ultimately to be extended to the Stewart River, a total distance of 84 miles.

HILLSBORO & NORTHWESTERN.—This company will build an extension from Hillsboro to Richland Center, Wis., 28 miles. Edward H. Hammer is Pres. and John A. Cash is Secy., at Hillsboro, Wis.

MOREHEAD & NORTH FORK.—Bids are asked by William M. McCormick, Pres., 218 Girard Bldg., Philadelphia, until noon, March 30, for building a 1,300-ft. tunnel on line of this railway in Rowan County, Ky. Also for grading of line about 3¼ miles each way from the tunnel. G. W. Hess is Engr., Morehead, Ky. (Advertised, Engineering News.)

MIDLAND VALLEY.—J. T. Holden, Gen. Mgr., Girard Bldg., Philadelphia, Pa., states that while it has not been definitely decided that his road is to be extended beyond Arkansas City, a surveying party is now in the field laying out a route for an extension to Wichita, Kan. Surveyors also are running a line to Wellington, a distance of 30 miles, to connect with the Chicago, Rock Island & Pacific Ry. Rails have been laid from Fort Smith to Arkansas City, Ark., and train service over the entire line will soon be established.

NORTHERN ALBERTA RAILWAY & COAL CO.—Application is being made to the legislature by A. J. Arnold, of Windsor, Ont., for permission to build this road, which it is proposed to build from Lethbridge, via High River and Calgary, to Edmonton, about 500 miles.

NORTHERN PACIFIC.—PORTER BROS. & WALSH, of Spokane, Wash., have the contract for building an extension from Culdesae, Idaho, to Grangeville, Idaho, 55 miles.

QUEBEC, MONTREAL & SOUTHERN.—Application will be made to the Dominion Parliament by this company to take over the Quebec Southern, which includes the South Shore, the United Counties, and the East Richelieu Valley railroads, to complete the line which the South Shore was authorized to build from Noyan Junction to the international boundary, to secure terminal lands and wharfs, and to operate steamers on the St. Lawrence and Richelieu Rivers.

RIO GRANDE WESTERN.—The stockholders have authorized the directors to amend the charter so as to provide for the construction of a branch from a point near Garfield, Utah, up Bingham Canyon, to a connection with the Copper Belt Ry.

ST. LOUIS & SAN FRANCISCO.—It is reported that surveyors are in the field for the proposed lines from Quanah, Tex., to El Paso, 400 miles; also for an extension from Brady to San Antonio, Tex., 150 miles.

ST. LOUIS & NORTH ARKANSAS.—Extensions will be built northwest from Seligman to Joplin, Mo., and southeast from Leslie, Ark., to the Mississippi River; river terminus not yet fixed; total new construction about 261 miles. No bids have yet been asked for either construction or equipment. S. W. Lee is Ch. Engr., at Eureka Springs, Ark.

TEXAS & OKLAHOMA.—A press report from Oklahoma City, Okla., states that T. B. Stone, Pres. of the Texas & Oklahoma Ry., has announced that the survey has been finished to Wichita Falls, Tex., and that work on the actual construction of the road will be commenced as soon as Oklahoma City provides terminals and right-of-way. A bonus of $75,000 is asked of Oklahoma City and the Chamber of Commerce will begin the work of raising the money at once.

UNION PACIFIC.—The New York "World" announces that E. H. Harriman, Pres., has authorized J. Kruttschnitt, Director of Maintenance and Operation, at Chicago, Ill., of the Union Pacific and the Southern Pacific Railroads, to install automatic electric block signals of the most advanced type from Omaha to San Francisco, 1,800 miles, and from San Francisco to Colton, through Los Angeles, 542 miles, the route of the Overland Limited. These 2,342 miles will be the longest piece of continuous automatic electric block signals in the world, it is said. The cost will aggregate $3,000,000.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

OSSINING, N. Y.—The Hudson River & Eastern Traction Co. has been incorporated in New York to build an electric railroad from the New York Central tracks in Ossining, N. Y., through Briarcliff Manor, Pleasantville and Sherman Park, about nine miles. The incorporators include: L. B. Grant, R. W. Yates, H. E. Keeler, A. T. Cole and others, of New York.

SYRACUSE, N. Y.—The Rochester, Syracuse & Eastern Railroad Co. will soon let contracts for the construction of the section between Lyons and Savannah, N. Y., about 15 miles. The plans will be submitted to selected contractors.

The Syracuse Rapid Transit Railway Co. has purchased 22,000 poles and 500 tons of rails for extensions to be built about this spring. About an equal amount of each is to be ordered. Six work cars are being built for the company in the shops of the Cleveland Electric Railway Co. Poles and wire are yet to be ordered. John Duffy is Supt.

AUBURN, N. Y.—The Auburn & Syracuse Electric Railroad Co. will soon let contracts for the building of the Auburn & Northern road from Auburn to Port Byron, a distance of eight miles. T. H. Mather is Ch. Engr.

JOHNSTOWN, PA.—A syndicate headed by C. S. Jennings, of Baltimore, Md., has closed a deal for the charter rights and franchises of the Somerset Street Railway Co. The company proposes to at once begin the construction of a street railway system between Johnstown and Cumberland, at a cost of $1,000,000. The Meyersdale-Salisbury section will be constructed first.

POTTSVILLE, PA.—The Pottsville Union Traction Co. will build an extension from Pottsville to Shenandoah, 22 miles. Joseph B. Hoeliman is Gen. Mgr., at Pottsville.

ALLENTOWN, PA.—The Allentown, Tamaqua & Ashland Ry. Co. has been incorporated in Pennsylvania to build an electric line from Allentown through South Whitehall, North Whitehall, Low Hill, Heidelsburg and Lynn, Lehigh County; West Penn, Schuylkill, Blythe and Mahanoy, Schuylkill County, to Mahanoy City, a distance of 50 miles. Capital, $500,000. President, W. M. Lindsay, Pittsburg, Pa.; Directors, F. P. Patterson, Homer P. Goff, J. R. D. Huston, R. A. Whiteside, T. R. Foley, L. V. Walsh and W. M. Lindsay, all of Pittsburg, Pa.

CHESTER, PA.—The Chester Traction Co. may build an extension from Chester to Rockdale. S. S. Hoff is Gen. Mgr., 13th and Edgemont Aves., Philadelphia, Pa.

LIBBY, MONT.—W. A. Sharp, Mgr. of the Montana Miners' Electric Ry. & Power Co., Libby, is reported to have stated that grading will be commenced in May on this road, which is to connect the mines in the Coeur d'Alene district with the Great Northern Ry. at Libby, Mont., a distance of about 25 miles. Contracts are to be let for ties and steel. The GENERAL ELECTRIC COMPANY, of Schenectady, N. Y., will have charge of installation and the railroad company will build the road. The road will carry freight only, consisting of gold, silver and lead ore and lumber. All tonnage will be carried down grade, and it is expected to load 50 cars to the train. The company also intends to furnish electric power to the mines. Ample water power is said to be available.

HUMBOLDT, TENN.—L. M. Williams, Ch. Engr. of the Missouri, Tennessee & Georgia R. R., at Newbern, Tenn., writes us that preliminary survey has been made by this company and that right-of-way is being secured for the proposed line from Humboldt, Tenn., to Dyersburg, Tenn. Capital is secured. Date for receiving bids is not yet fixed.

JEFFERSONVILLE, IND.—Charles Fisk, Jr., Ch. Engr., of the Louisville & Indiana Traction Co., writes us that construction of this road is authorized, and probably will begin about April 1. Length, 42 miles, extending from Louisville to Seymour, Ind. Excavation, 560,000 cu. yds.; bridges, 32; masonry, 5,000 cu. yds.

FT. WAYNE, IND.—We are officially advised that the Ft. Wayne, Logansport & La Fayette Traction Co. has made final location surveys for its line and has obtained an option on right-of-way for entire route. Capital for construction has been secured. The line is to be 36 miles long, from Ft. Wayne to Logansport, Delphi and Lafayette. Contracts will be let about April 1. C. D. Emmons is Gen. Mgr. and H. L. Weber is Ch. Engr., both with headquarters at Ft. Wayne.

INDIANAPOLIS, IND.—We are advised by William Duncan, Ch. Engr., that the Indianapolis & Ohio Valley Traction Co., 403-406 State Life Bldg., Indianapolis, wishes to let contracts by April 1 for building this road. Contractors desiring to bid on this work will correspond with the above address where plans and profiles may be seen.

SPOKANE, WASH.—We are officially advised that contracts probably will be let in April by the Pend d'Oreille & Spokane Rapid Transit Co., Ltd., for the construction of its line between Spokane, Wash., and Lake Pend d'Oreille, Idaho. C. H. Reeves is Pres. and C. W. Wheeler is Ch. Engr., at Spokane. Preliminary surveys are nearly completed and about one-half of right-of-way is secured. This company recently incorporated with $2,000,000 capital stock.

SAN FRANCISCO, CAL.—Thomas P. Woodward, City Engr., writes us that bids are asked until April 9 for the construction of the Geary St. underground electric conduit municipal railroad. The work includes the conversion of reconstruction of 3.3 miles of an old cable road, using the old rails and roadbed and .8 miles of new construction. The cost has been estimated at $328,000. The power or car house and cars will be provided for by an additional appropriation.

LEWISTON, IDAHO.—Col. Judson Spofford, of Lewiston, Pres. of the Lewiston & Southeastern Electric Ry. Co., writes us that contract for one section of the line has been let to the INLAND CONSTRUCTION CO., of Lewiston. Contracts for balance of line will be let within 60 days' time. The road will be 110 miles long, from Lewiston to Clarkston, Assotin, Waha, Forest, Westlake, Cottonwood, Denver, Grangeville, Ilo, Dublin and Nez Perce. Surveys are made and capital and right-of-way are secured. W. P. Wood, Lewiston, is Ch. Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

UTICA, N. Y.—The Herkimer County Light & Power Co. will double the size of its plant and has awarded the following contracts: P. B. McCAGHEY, excavation and foundation for new building; RODNEY HUNT MACHINE MO., Orange, Mass., water wheel; GENERAL ELECTRIC CO., Schenectady, N. Y., generators, switchboards and other electrical equipment.

WASHINGTON, D. C.—Bids are asked until March 20 at the Bureau Supplies and Accounts, Navy Dept., Washington, D. C., to furnish at the navy yards, etc., Portsmouth, N. H.; Boston, Mass.; Newport, R. I.; New York, N. Y.; League Island, Pa.; Washington, D. C.; and Norfolk, Va., a quantity of naval supplies, as follows: Schedule 388, steel beams. Schedule 389, sand, motor, incandescent lamps, volt meters, conduit fitting, crucible steel wire, etc. Schedule 390, annealed steel, iron pipe, pipe fittings, valves, traps, pine, spruce, etc. Schedule 391, electrical supplies, forges, hydraulic jacks, bar steel, iron pipe, etc. Schedule 392, valve reseating machinery pumps, sheet copper and brass, steel bars, plain and galvanized sheet steel, propeller shafts, brass and copper, pipe valves, pipe fitting, etc. Also until March 27 to furnish at the Navy Yard, Pensacola, Fla., and the Naval Station, New Orleans, La., a quantity of naval supplies as follows: Schedule 396, R. R. cross ties. Schedule 397 incandescent lamps, pipe bending machine, twist drills, self-hardening steel, etc. Schedule 398, air and circulating pumps, valves, copper tubing. Applications for proposals should designate the schedules desired by number. H. T. B. Harris, Paymaster-Gen., U. S. N.

CLEVELAND, O.—The B[illegible] Works has placed a contract [illegible] ENGINE CO. for two 100-[illegible] with the TRIUMPH ELECT[illegible] 50-KW. and one 75-KW. gene[illegible] be installed in a plant to [illegible] power to the city hall. T[illegible] received bids for 200 arc lam[illegible] Brooklyn municipal light pla[illegible] tract will be awarded as a[illegible] ciency tests are made. A. [illegible] Secy. Bd. Pub. Wks.

LOCKPORT, ILL.—The [illegible] steel work of the water po[illegible] plant south of Lockport ha[illegible] to the JOLIET STEEL [illegible] CO., Joliet, Ill., at $92,200.

SAN DIEGO, CAL.—The S[illegible] tric Railway Co. has acqui[illegible] increase of the power hous[illegible] INGHOUSE MANUFACTURI[illegible] contract for machinery.

AMERICAN FORK, UTAH [illegible] of Salt Lake City has been a[illegible] for the erection of two pow[illegible] be operated by steam and on[illegible] gether they will generate [illegible] County Light & Power Co. [illegible] plants. Peter Anderson is C[illegible]

CHATHAM, N. B.—Bids [illegible] March 20, by Lee & Coffin, M[illegible] erection of an electric light [illegible] tion. James Nichol is Mayor [illegible] Kay, City Engr.

KENORA, ONT.—The Keewa[illegible] Ltd., Keewatin, Ont., will off[illegible] July 5 its developed water [illegible] west branch of the Winnipeg [illegible] city. Effective horse power, [illegible] ft. John Mather, 453 Laurier [illegible] is Pres. (Advertised, Enginee[illegible] News.)

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by the Metropolitan Park Commission, 14 Beacon St., Boston, until noon, March 19, for the construction of the Sachem Brook bridge and a culvert, Quincy Shore Reservation, Quincy. John R. Roblin, Engr.

FITCHBURG, MASS.—We are officially advised that the contract for constructing iron work for bridge over Nashau River at Daniels St., has been awarded to the CANTON BRIDGE CO., Canton, O., at $4,140. Other bids received Feb. 27, were as follows: Eastern Bridge & Structural Co., Worcester, Mass., $4,920; Groton Bridge Co., 39 Cortlands St., New York, $4,463; Boston Bridge Works, Boston, $4,538 (without guard rails); United Construction Co., Albany, N. Y., $5,470; Harrington, Robinson Co., Boston, $5,550; Berlin Construction Co., Berlin, Conn., $4,660. David A. Hartwell is City Engr.

WOONSOCKET, R. I.—Council is considering an appropriation of $11,000 for a steel bridge over the New York, New Haven & Hartford R. R., on Arnold St. Frank H. Mills is City Engr.

PROVIDENCE, R. I.—The PENN BRIDGE CO., Beaver Falls, Pa., has been awarded the contract for constructing the steel superstructure of the Point St. bridge and the contract for constructing a steel bridge over the Moshassuck River at Smithfield Ave. has been awarded to the NEW JERSEY BRIDGE CO., Fuller Bldg., New York.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 23, for constructing a steel foot-bridge over the tracks of the New York Central & Hudson River R. R. at West 155th St. John F. Ahearn, Boro. Pres.

PEDRICKTOWN, N. J.—The following bids were received March 10, by the joint committee of the Counties of Salem and Gloucester for the construction of a new drawbridge over Old Man's Creek at Pedricktown, N. J.: Franklin K. Wills Co., Wilmington, Del., $12,825; B. F. Sweeten & Son, Camden, N. J., $13,080; The Toledo & Massillon Bridge Co., Toledo, O., $9,650; New Jersey-West Virginia Bridge Co., Fuller Bldg., New York, (aa) $11,200, (ab) $7,485, (ac) $8,800, (ba) $7,130; (bb) $6,400, (bc) $9,900, (ca) $9,300, (cb) $7,500, (cc) $7,900; The United Construction Co., Albany, N. Y., (1) $7,745, (2) $8,200, (3) $6,813, (4) $7,153; Dean, Schwiers & Sutton Co., 136 Liberty St., New York, (a) $9,974, (b) $7,830, (c) $8,207, (d) $8,352; Berlin Construction Co., Berlin, Conn., $13,000; Eyre Construction Co., Arcade Bldg., Philadelphia, Pa., $9,614; Owego Bridge Co., Owego, N. Y., (1) $8,100, (2) $8,450; Canton Bridge Co., Canton, O., (a) $11,500, (b) $11,500.

WILKES-BARRE, PA.—W. V. Ingham, City Engr., has prepared plans for the construction of the New East End bridge.

CHESTER, PA.—It is stated that the Philadelphia & Reading Ry. will construct a new steel bridge over Chester Creek at Front St. William Hunter is Ch. Engr., at Philadelphia.

GETTYSBURG, PA.—Bids are asked until noon, March 22, for the construction of a concrete bridge. J. C. Group, Chn. Bd. County Comrs.

SUMMERVILLE, GA.—Bids are asked until March 19 for the construction of a steel bridge across Chattanooga River at Price Bridge. T. J. Simmons, Chn. Bd. Roads and Revenue.

BIRMINGHAM, ALA.—The following contracts for bridge work were awarded March 5 by the Board of Revenue: The SOUTHERN BRIDGE CO., Birmingham, five bridges, at $15,604; the BELLEFONTAINE BRIDGE & IRON CO., Bellefontaine, O., one bridge, at $1,201; the JOLIET BRIDGE & IRON CO., Joliet, Ill., one bridge, at $1,383; the AMERICAN BRIDGE CO., 42 Broadway, New York, two bridges, at $2,058.

BELZONA, MISS.—Bids are asked until April 20 for the construction of an iron drawbridge across the Yazoo River at this place. S. Castleman, Mayor. (Advertised, Engineering News.)

BARBERTON, O. — Harry A[illegible]rn, City Engr., has prepared plans for a steel viaduct at Cornell St.

DAYTON, O.—Bids are asked until 11 a. m., March 29, for the construction of the superstructure of a bridge over Wolf Creek in Brookville. T. J. Kauffman, County Audr.

COLUMBUS, O.—Bids are asked until noon, March 30, for the construction of the Reed Ave. viaduct in Marion township. L. E. Jones, County Audr.

CRAWFORDSVILLE, IND.—Bids are asked by the Board of County Commissioners until 10 a. m., April 2, for the construction of seven steel and concrete bridges. James A. Harding, County Surv.

FRANKFORT, IND.—Bids are asked until 2 p. m., April 2, for the construction of 22 concrete bridges. C. O. Burget, County Auditor; W. A. [illegible] Engr. and Supt.

GRAND RAPIDS, MICH.—Contract has been awarded to PARK, SMITH & NELSON for placing fender piers at the Wealth Ave. bridge, at $4,[illegible].

PEKIN, ILL.—The contract for a bridge over the Mackinaw River in Sand Prairie township has been awarded to the ILLINOIS BRIDGE & IRON CO., Sullivan, Ill., at $1,695.

HEYWORTH, ILL.—The Illinois Traction System has awarded the contract for a concrete and steel bridge over Kickapoo Creek, north of this place, to the INTERURBAN CONSTRUCTION CO., of Danville, Ill.

RACINE, WIS.—The following bids were received March 6 for constructing a swing bridge over Root River at Main St.: Strobel Steel Construction Co., Monadnock Bldg., Chicago, $72,200; Modern Steel Structural Co., Waukesha, Ill., $76,000; Edward Gillen Dock & Dredge Co., Racine, $70,852; American Bridge Co., 42 Broadway, New York, $71,650; Milwaukee Bridge Co., Milwaukee, Wis., $69,800.

MILWAUKEE, WIS.—We are officially advised that the contract for construction of the first section (851 ft.) of the superstructure of the 27th St. viaduct was awarded on March 9 to the STROBEL STEEL CONSTRUCTION CO., Monadnock Bldg., Chicago, at $8,700. Other bids were as follows: Worden Allen Co., Milwaukee, $115,000; Joseph Skobis, Milwaukee, $118,828; Fred. W. Moore, Milwaukee, $108,000. Charles J. Poetsch is City Engr.

Legal obstacles have been removed and plans will be prepared for the construction of the Grand Ave. viaduct, $450,000 have been appropriated for this work.

WASECA, MINN.—We are officially informed that A. Y. Bayne & Co., Minneapolis, were lowest bidders for constructing eight bridges in Waseca county at $5,346. C. H. Bailer is County Audr.

EMPORIA, KAN.—The County Commissioners have awarded a contract for two steel bridges to the A. M. BLODGETT BRIDGE CO., Kansas City, Kan.

LEAVENWORTH, KAN.—County Commissioners have awarded a contract for constructing five bridges to TEARNEY & MOTTIN, at $2,851.

GRAND FORKS, N. DAK.—Bids are asked until April 3 for the construction of all bridges to be erected by county during the coming year. Hans Anderson, County Audr.

FORT BENTON, MONT.—We are officially advised that the contract for constructing a combination bridge has been awarded to O. E. PEPPARD, Missoula, Mont., at $6,900.

DENVER, COLO.—Bids are asked until noon, April 4, for the construction of a reinforced concrete bridge over the Conejos River, near Guadalupe, Colo. T. W. Jaycox, State Engr. (Advertised, Engineering News.)

PALOUSE, WASH.—A. VALK, of Pullman, has been awarded a contract for constructing a steel and wood bridge over Union Flat Creek, at $1,434.

PORTLAND, ORE.—The County Commissioners have awarded a contract for redecking a steel bridge to J. B. TILLOTSON, at about $8,000.

SAN FRANCISCO, CAL.—It is reported that the Ocean Shore Ry. Co. has awarded a contract to the SAN FRANCISCO BRIDGE CO. for the building of the temporary structure to be used during the construction of the College Hill viaduct on Mission St. Estimated cost, about $50,000.

SOUTH PASADENA, CAL. — The South Pasadena Realty & Improvement Co. has awarded to C. LEONARDT, a contract to construct a reinforced concrete bridge situated at Oaklawn, at $18,250.

COEUR D'ALENE, IDAHO.—Bids are asked until April 10 for the construction of a combination steel bridge over the Spokane River, near Post Falls. T. L. Quarles, Clk. Bd. County Comrs.

HAZEN, NEV.—See under Miscellaneous: Irrigation Ditches.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked by the Schoolhouse Commissioners, 120 Boylston St., until noon, March 29, for building Normal and Latin School Group, Longwood Ave. Peabody & Stearns, Maginnis, Walsh & Sullivan and Coolidge & Carison, Associated Archs., 22 Congress St., Boston.

ALBANY, N. Y.—Bids are asked until 3 p. m., April 4 for repairs to the heating system at the Manhattan State Hospital, Ward's Island, N. Y. T. E. McGarr, Secy. State Comn. in Lunacy. (Advertised, Engineering News.)

NEW YORK, N. Y.—The following bids were received March 12 by C. B. J. Snyder, Supt. School Bldgs., for the general construction of Public School No. 114, on Remsen Ave., Boro. of Brooklyn: Thomas Cockerill & Son, 147 Columbus Ave., $178,400; Clarke & Stowe, 229 Kent St., Brooklyn, $178,600 (informal); George T. Driscoll, 391 Fulton St., $189,000; C. H. Peckworth, 415 Hudson St., $173,476; Arci Construction Co., 99 Broadway, Brooklyn, $176,670; P. J. Ryan, 314 West 44th St., $171,948; Guidone & Gardi, 1 Madison Ave., $176,486; George Hildebrand, 38 Park Row, $174,900. Bidders of New York except as specified.

Blake & Williams, 211 West 20th St., were lowest bidders for the installation of heating and ventilating apparatus in Public School No. 66, Boro. of Brooklyn, at $38,998. Bids were received March 12.

Plans have been completed by Ernest Flagg Arch., 35 Wall St., for a 4-story building, 99 × 125 ft., to be erected at 125th St. and Eighth Ave., for C. F. Bishop. Estimated cost, $125,000.

NEW YORK, N. Y.—CHARLES T. WILLS, 156 Fifth Ave., has been awarded the general contract for a 12-story office and mercantile building, to be erected on Fifth Ave. from 26th to 27th St., for the Brunswick Site Co., B. F. Cheney, Pres. It will be fireproof 197.6 × 157.6 ft. with a facade of limestone for the first two stories and brick, trimmed with terra cotta, above. The building will be equipped with six passenger and two freight elevators. The cost is estimated at $1,200,000. The architects are F. H. Kimball, 71 Broadway, and H. E. Dunnell, 3 West 29th St.

Bids are asked until 3 p. m., March 22, for the erection of the south wing of the west facade of the American Museum of Natural History in Manhattan Sq. Moses Herrman, Pres. Dept. of Parks.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 22 for the construction of a boat-house in Bronx Park. Moses Herrman, Pres. Dept. of Parks.

SYRACUSE, N. Y.—Charles H. Gang and H. D. Dwight have awarded the following principal contracts for the construction of an 8-story hotel in this city to cost about $500,000: Steel and concrete work, to the SYRACUSE BRIDGE CO., masonry and carpentry contracts to JAMES E. HEFFERNAN, of Syracuse. Charles E. Colton, 502 Kirk Bldg., is Arch.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 10, for constructing one administration building, one double set noncommissioned staff officers' quarters and an addition to storehouse at Fort Wood, New York Harbor. Capt. G. C. Burnell, Const. Q. M.

ATLANTIC CITY, N. J.—D. W. & G. H. THOMAS, Vickers Bldg., Baltimore, have received a contract for the construction of a theater, office, store and apartment building here for the Nixon Amusement and Realty Co., at about $400,000. Building will be brick, stone, concrete and steel, fireproof, 207 × 298 ft.

WILKES-BARRE, PA.—Bids are asked until noon, March 24, for the construction of a church and parish house. Owen McGlynn, 61 Simon Long Bldg., is Arch. Rev. Father Murgas is Pastor.

BALTIMORE, MD.—J. H. MILLER, 112 Dover St., has been awarded the contract for erection of a 5-story brick warehouse at Light and Balderston Sts., for the Gottschalk Co. Estimated cost $50,000.

The UNIT CONCRETE STEEL FRAME CO., of Philadelphia, has received contract for the erection of a store at 203 North Eutaw St., Baltimore, for Carl G. Hilgenberg. The structure will be four stories high, 41 ft. × 70 ft., fireproof, reinforced concrete construction.

WASHINGTON, D. C.—We are officially advised that the contract for constructing public convenience No. 1 was awarded to JAMES M. DUNN, 1324 Fifth St., N. W., at $17,000 and contract for plumbing work in same was awarded to JAMES NOLAN & SONS, 721 14th St., N. W., at $4,648.

WASHINGTON, D. C.—Bids were opened March 7, Elliott Wood, Supt., Capitol Bldg., and Grounds, for fireproof floor construction of the office building, House of Representatives, as follows: a is for entire work, reinforced concrete arches, with ceilings furred for plastering, b, ditto, segmental terra-cotta arches instead of concrete; c, entire work, with flat terra-cotta end construction arches; d, entire work, with flat terra cotta side construction arches; e, alternate system; f, construction on second, third and attic floors; g, alternate system for b; h, alternate system for c; Ambrose B. Stannard, Washington, a, $72,400; b, $112,500; c, $98,400; d, $113,800; e, $80,900. Columbia Reinforced Concrete Co., 26 West 26th St., New York, e, $68,354, alternates on e, $65,779, $60,154, and $64,354. Roebling Construction Co., Fuller Bldg., New York, e, $67,500. National Fire Proofing Co., Washington, a, $84,275, c, $80,406; f, $105,064. R. J. Beall Construction Co., Washington, a, $81,770, e, $81,750. Hennebique Construction Co., 1123 Broadway, New York, f, $94,870. General Fire-Proofing Co., Washington, a, $83,825, e, $83,825, alternate $77,000. Haydenville Co., Haydenville, Ohio, c, $103,900. Baltimore Ferro-Concrete Co., 961 Calvert Bldg., Baltimore, f, $90,500. Brennan Construction Co., Washington, a, $66,615, cinder concrete $72,295, gravel concrete; f, $82,579; h, $75,150. Geo. S. Holmes Co. 156 West 27th St., New York, b, $78,634.

MILLEDGEVILLE, GA.—Bids are asked until noon, March 20, by R. N. Lamar, Secy. and Treas. for the erection of a building for the Georgia Normal and Industrial College. J. W. Golucke & Co., Archs., Atlanta.

BIRMINGHAM, ALA.—JOHN GRIFFITHS & SON, 135 Adams St., Chicago, Ill., have been awarded the general contract for a hotel, according to reports, to be built here. It will be 12-story, 150 × 125 ft., fireproof, of steel construction, pressed brick, stone and terra cotta, and cost $100,000. W. C. Western, of Birmingham, is Arch.

CLEVELAND, O.—D. H. Burnham, Arch., Railway Exchange Bldg., Chicago, Ill., it is stated, has prepared plans for a union station to cost about $6,000,000 which is to be erected by the Lake Shore & Michigan Southern, the Cleveland, Cincinnati, Chicago & St. Louis, and the Pennsylvania Railroad companies. S. Rockwell is Ch. Engr., Lake Shore & Michigan Southern Railroad, at Cleveland.

WOODSFIELD, O.—Samuel Hannaford & Sons, Archs., Hubert Blk., Cincinnati, will ask for bids about March 15 for a 3-story court house for the Monroe County Commissioners at this place. Brick and stone, 83 × 127 ft., costing $135,000.

BLOOMINGTON, IND.—The Monroe County Commissioners will let contracts shortly for the construction of a court house, at this place, to cost $75,000.

CHICAGO, ILL.—It is reported that Libby, McNeil & Libby, Union Stock Yards, have had plans prepared for a warehouse, to be erected in the stock yards. To be 4 stories, 80 × 147 ft., built of reinforced concrete construction. $100,000 is estimated cost.

D. H. Burnham & Co., Archs., Railway Exchange Bldg., have let the carpentry contract to the MEADER FURNITURE CO., Cincinnati, O., for the Commercial National Bank building to be built at Clark and Adams Sts. It will be 15-story, 201 × 192 ft. and cost about $2,500,000, according to reports.

Bids are asked until April 2, it is reported, for the marble mosaic and tile work required for the Cook County court house. Holabird & Roche, Archs., Monadnock Blk. Edward J. Brundage, Pres. Bd. County Comrs.

MINNEAPOLIS, MINN.—The H. N. LEIGHTON CO., 213 South Sixth St., it is reported, has secured the general contract for the erection of the McQuaid Building at Seventh and Hennepin Aves., at about $400,000.

The contract for the construction of the Shevlin Hall building at the State University has been let to J. & W. A. ELLIOTT, 906 Lumber Exchange Bldg. It will cost $90,000. Ernest Kennedy, 442 Boston Blk., is Arch.

NEWTON, KAN.—Bids are asked until April 5 for the construction of a court house at this place. Building will be 75 × 100 ft. and cost about $60,000. Rowland & Squires, Archs., 734 Kansas Ave., Topeka, are Archs.

CHEYENNE, WYO.—Bids are asked until 2 p. m., April 14, for furnishing and installing electric light fixtures in several buildings at Fort D. A. Russell, Wyo. Capt. W. S. Scott, Const. Q. M. (Advertised, Engineering News.)

BEAUMONT, TEX.—F. B. SMITH has been awarded a contract to construct a 3-story office building for S. Blanchette and associates. Estimated cost, $65,000. H. C. Mauer is Arch.

TACOMA, WASH.—Frederick H. Heath, Arch., Fidelity Bldg., will prepare plans for a 10-story office building, 100 × 120 ft. costing about $600,000, to be erected at 15th and A Sts.

LONGBEACH, CAL.—The Longbeach Hotel Co. has awarded a contract to F. L. SPAULDING for the erection of a 5-story building here, at $185,095. Austin & Brown, Los Angeles, are Archs.

LOS ANGELES, CAL.—C. LEONARDT has been awarded the contract for the erection of a 6-story building at 716 Broadway for M. A. Newmark. Estimated cost, $100,000. Morgan & Walls, 252 North Main St., are Archs.

REGINA, SASK.—The contract for constructing a new city hall here has been awarded to SMITH BROS. & WILSON, of Lethbridge, Alta., at $108,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—WOOSTER & WILSON, Woodfords, Me., have been awarded contract for extension of water main at Ft. Williams. Noted in issue of March 8.

LAKEWOOD, N. Y.—Contract for a new water plant, to cost approximately $30,000 has been let to COLLEY & CO., of Oswego. R. H. Maxson is Clk.

AUBURN, N. Y.—Contract for constructing 36-in. wrought-iron pipe for Anasco Lake intake has been awarded to the PELTON WATER WHEEL CO., 143 Liberty St., New York. I. F. Skinner, Rochester, is Engr.

UTICA, N. Y.—Bids are asked until March 26, by Consolidated Water Co., for construction of 6,000 ft. of pipe line. (Advertised, Engineering News.)

AUBURN, N. Y.—Bids are asked until 1 p. m., April 11, by the Water Board, for laying about 1,850 lin. ft. of 36-in. wrought-iron intake pipe. J. T. Grant is Supt. (Advertised, Engineering News.)

EAST ORANGE, N. J.—Bids are asked until March 26 for furnishing and laying cast-iron pipe, building overflow chamber and manhole, connecting up driven well, and building sub-station building, etc.

READING, PA.—Contracts for water-works improvements have been let as follows: M. J. DRUMMOND & CO., c.-i. pipe and specials, cast-iron gate boxes, etc., $7,166; John E. Weidner, laying pipe, $4,371. E. H. Beard is City Engr.

ALTOONA, PA.—Bids are asked until noon, March 23, for furnishing material and work to the Water Department for the year ending April 1, 1907. H. K. McCauley, Chn. Bd. Water Comrs.

FT. WASHINGTON, MD.—Bids are asked until noon, March 27, by Lieut. Willis R. Vance, Const. Q. M., Ft. Hunt, Va., for the extension of the water system here.

CLEVELAND, O.—The Board of Public Safety is reported to have on March 1 awarded to the U. S. CAST IRON PIPE & FOUNDRY CO., of Cleveland, the contract for cast-iron pipe, ranging from 8 to 20-in., and to the AMERICAN CAR & FOUNDRY CO. for special castings; total amount of contract, $67,000.

The Board of Public Safety is reported to have on March 2 awarded to the THOMSON METER CO., Brooklyn, N. Y., the contract for 10,000 water meters.

DAYTON, O.—U. S. CAST-IRON PIPE & FOUNDRY CO. has been awarded the contract for furnishing water pipe at $11,400. Noted in issue of March 8.

CINCINNATI, O.—The Water-Works Commissioners have awarded the contract for electric generating machinery for the eastern pumping station to DRAVO, DOYLE & CO., at $28,692. Chas. E. Dannenhauer is Ch. Engr. Bd. Pub. Wks.

YOUNGSTOWN, O.—The Board of Public Service has awarded contracts for water-works improvements as follows: PITTSBURG METER CO., meters, $4,627; DARLING MANUFACTURING CO., valves, $1,983; R. D. WOOD & CO., hydrants, $1,390; MASSILLON IRON & STEEL CO., pipe and specials, $12,535; FARNAM BRASS WORKS, boxes and cocks, $2,241. F. M. Lillie is City Engr.

COLUMBUS, IND.—Bids are asked until April 16 for the construction of a 10½ × 210 ft. extension to the filter at water-works plant. W. H. Rights is City Engr.

LAWRENCE, IND.—It is announced by Capt. Cheatham, Q. M., that contracts for various improvements at the army post have been awarded as follows: FRANK C. BUTTS for sinking an artesian well; CASTOE & WARNER, for the sewer and water distributing system; HEINZMAN & BROS. for the boiler and pump house, including electric wiring; EDWARD E. LYST & C. H. DANIELS for the construction of a 200,000 gallon reinforced concrete reservoir and the INGERSOLL-RAND CO., for boilers, feed pumps and piping. The successful bid on the sewer reducing plant has not been announced.

DETROIT, MICH.—Bids are asked until 10 a. m., March 29, by the Detroit Sulphite Pulp & Paper Co., for 475 lin. ft. of 5-ft. brick tunnel, 3,000 lin. ft. 40-in. wood-stave pipe and 300 lin. ft. 40-in. steel pipe with intake crib. French & Russel, 505 Moffat Bldg., Detroit, are Engrs. (Advertised, Engineering News.)

SPRING LAKE, MICH.—We are officially informed that bonds for $15,000 have been voted to cover the cost of erecting a standpipe and constructing water system. C. M. Kay is Village Clk.

GALESBURG, ILL.—Bids are asked until 5 p. m., March 16, for drilling an 8-in. artesian well. L. F. Brown is City Clerk. (Advertised, Engineering News.)

HEBRON, ILL.—T. H. IGLEHART, Morgan Park, Ill., was awarded the contract, at $8,376, for the construction of a system of cast-iron water pipes, embracing 11,792 ft. of 4, 6 and 8-in. pipe, 20 hydrants and valves and fittings. L. A. Nichols is Pres. Bd. Local Improvements.

MUSCATINE, IA.—J. E. HOWE, Walnut and Seventh Sts., is reported to have secured the contract for construction of pumping station at $7,055.

FARGO, N. DAK.—Bids are asked until 5 p. m., March 26, by H. J. Gibson, City Audr., for laying water mains.

BALLINGER, TEX.—Bids are asked until March 16, by the council for furnishing material and remodeling the pipe system at an estimated cost of $14,000. J. B. Hawley, Ft. Worth, is Consult. Engr. J. W. Powell, Mayor.

SEATTLE, WASH.—Contract for the construction of water mains in Holgate St. has been awarded to the INTERNATIONAL CONTRACT CO., at $7,333.

STIRRAT & GOETZ, 602 Bailey Bldg., Seattle, were the successful bidders for the construction of water mains on E. Union St. at $31,711. Other bidders were: Bell & Price, Marion Bldg., Seattle, $32,102, and the International Contract Co., 738 New York Blk., Seattle, $32,614. R. H. Thompson is City Engr.

The Hanford Irrigation & Power Co., writes that specifications are now ready for the work contemplated by this company; probable cost of construction, $350,000. Engineer, H. K. Owens, Alaska Bldg. M. B. Haynes, Scheuerman Blk., Secy.

SAN DIEGO, CAL.—Contract for about 400 tons of 4 and 6-in. cast-iron pipe was awarded to the U. S. CAST-IRON PIPE & FOUNDRY CO., at $40.20 per ton for 6-in. and $39.20 for 4-in. F. H. Dixon is Secy. Bd. Pub. Wks.

SALT LAKE CITY, UTAH.—Bids are asked until 3 p. m., April 11, by the Board of Public Works, for the construction of all water mains that may be ordered by the city from April 1 to October 31. F. J. Leonard is Chn. (Advertised, Engineering News.)

NAMPA, IDAHO.—Bids are asked until 8 p. m., March 17, by Claude Duval, City Clk., for pipes and fixtures for extension of water-works. R. W. Purdum is Mayor.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked until noon, March 29, by the Boston Transit Commission for the construction of about 1,900 lin. ft. of brick and concrete sewers, inside diameter, 3½ and 4½ ft. • B. Leighton Beal is Secy. (Advertised, Engineering News.)

E. S. Dorr, City Engr., has prepared estimates for sewer construction to cost $1,106,512. Ordinance providing for $100,000 bond issue has passed.

NEW YORK, N. Y.—Plans and specifications have been prepared and bids will soon be invited for the new sewer system which is to be maintained jointly by the Boroughs of Queens and Brooklyn, to provide for a district of about 1,200 acres in the Towns of Newtown, St. James Park, Ridgewood Heights and Cypress Hills. Bird S. Coler, Pres. Boro. Brooklyn.

NORWICH, N. Y.—It is planned to construct 8 and 10-in. sewers at a cost of $22,000. E. F. Musson is City Engr.

PERTH AMBOY, N. J.—Bids are asked until 8.30 p. m., March 19, for sewer construction. William H. Fullerton, Street Comr.

PATERSON, N. J.—Bids are asked until 8 p. m., March 15, for about 3,500 ft. of 12-in. sewers. H. J. Harder is City Engr.

UNION, N. J.—NOLAN & HORNUNG have been awarded contract for sewer in Franklin Ave., at $1,700.

ERIE, PA.—Contract for sewers in 16th and Cascade Sts. and Brown Ave. have been awarded to DENNIS O'BRIEN, at $7,850. JOSEPH McCORMICK & BRO. received contract for sewers in three streets, at from 78 cts. to $1 per ft.

Bids are asked until March 31 by the joint Street Commission of Council for constructing 9-in. sewers. B. E. Briggs, City Engr.

ALTOONA, PA.—We are officially informed that a sewage disposal plant will probably be built in the near future. Harvey Linton is City Engr.

READING, PA.—THE HAWMAN CONSTRUCTION CO. has been awarded the new sewer contract here by the City Council.

PITTSTON, PA.—Contract for sewering Exter Boro. has been awarded to J. McGRATH, at $15,343.

ALTOONA, PA.—Bids are asked until 7 p. m., March 24, for the construction af vitrified pipe sewers in various streets. Andrew Kipple, Chn. Bd. Pub. Works.

WASHINGTON, D. C.—THE CENTRAL FOUNDRY CO., 116 Nassau St., New York, has been awarded contract for furnishing all cast-iron pipe and fittings for the Senate office building, Washington, at $7,363.

JACKSONVILLE, FLA.—We are officially informed that BRYAN & CO., Forsyth Bldg., have been awarded the contract for constructing a drain in Main St., at $105,243. Other bids were: Black & Laird, New Orleans, $120,813; W. S. Cather, $138,952; J. N. C. Stockton, $124,468, and J. H. Harris, $110,664. J. H. HARRIS, West Bldg., Jacksonville, was awarded the contract for constructing sewer in same street, at $67,694. Other bids were: Black & Laird, $88,901; Bryan & Co., $84,295; J. N. C. Stockton, $85,399, and W. F. Cotter, $147,647. Unless otherwise noted, bidders are all Jacksonville firms. Bids opened March 5, as noted in issue of Feb. 1. B. V. Ellis is Supt. and Ch. Engr.

PENSACOLA, FLA.—Date for receiving bids for drains and sewers, as noted in issue of March 8, is changed from March 15 to March 19. (Advertised, Engineering News.)

NASHVILLE, TENN.—The Board of Public Works has awarded the contract for a 30-in. brick sewer in 14th Ave. to T. J. BARNSFIELD. W. W. Southgate is City Engr.

LOUISVILLE, KY.—Bids are asked until March 16 by the Board of Public Works for sewerage construction in several streets. J. B. F. Breed is City Engr.

CAMBRIDGE, O.—Bids are asked until noon, March 22, by the Board of Public Service, for 2,177 ft. of 12 and 15-in. sewers, manholes, catch-basins, etc. H. P. Woodworth, Pres. O. M. Hodge is City Engr.

CHILLICOTHE, O.—Bids are asked until April 3 by the Board of Public Service for storm sewer. H. M. Redd is City Engr.

YOUNGSTOWN, O.—Bids are asked until noon, March 21, by the Board of Public Service, for sewer in Sheby St. G. T. Prosser is Clk.

ASHTABULA, O.—Bids are asked until noon, March 17, by the Board of Public Service for constructing a sewer in West Camp St. A. J. Richardson is Clk.

INDIANAPOLIS, IND.—It is reported that the Board of Public Works will soon ask for bids for the construction of a sewer system to cost $200,000. Blaine Miller is City Clk.

ST. CLAIR, MICH.—The contract for the construction of sewers here was awarded to JOHN MERCIER, 211 Hammond Bldg., Detroit.

MENOMINEE, MICH.—Bids are asked until 5 p. m., March 19, by F. S. Norcross, City Clk., for constructing sewers in several streets.

LANSING, MICH.—J. A. BLACK, of this city, has been awarded contract for construction of the Weinmann Creek sewer, at $9,957. H. A. Collar is City Engr.

MT. CLEMENS, MICH.—Bids are asked until March 30 by the Board of Public Works for the construction of 2,400 ft. of brick sewers. J. W. Irwin is City Engr.

MARSEILLES, ILL.—It is reported that this city contemplates constructing a sewer system this spring to cost $100,000. W. H. Erwin, Ottawa, Ill., is Engr.

BATAVIA, ILL.—It is reported that bids will be asked at once for a sewer system to cost $82,688.

WILMETTE, ILL.—It is reported that contracts will be let in May for the proposed concrete relief sewers, which will cost about $150,000. Chas. N. Roberts, 709 Reaper Bldg., Chicago, is Engr.

MURPHYSBORO, ILL.—Bids are asked until March 24, by the Board of Local Improvements, for the construction of about 20,835 ft. of pipe sewer, etc. J. Q. Adams, Pres.; John McMahon, Secy.

OTTAWA, ILL.—We are informed that bids will soon be asked for the construction of one mile of concrete and eight miles of pipe sewers. Chas. F. Wilson is City Engr.

LIBERTYVILLE, ILL.—E. A. BAKER & SON, Melrose Park, have received the contract for constructing sewers at $2,925. James Anderson, Jr., is City Engr.

MINNEAPOLIS, MINN.—Bids have been received by the city council as follows for materials for the sewer department: 2,000,000 sewer brick, the Wisconsin Red Pressed Brick Co., Menominie, Wis., before June 10, $9.40 per M., after June 10, $9.25 per M.; Minneapolis Ceramic Co., 500,000, $8.95 per M.; Minneapolis Paving Brick & Cement Co., Minneapolis, cement brick, $8.50. 200 tons special castings, North Western Foundry Co., Minneapolis, $50 per ton; Crown Iron Works, Minneapolis, $52.45 per ton; Standard Foundry, Minneapolis, $49.50 per ton; Menzel & Jeffery, City, $51.50 per ton. 5,000 bbls. Portland cement, f. o. b. Minneapolis, North Western Lime Co., St. Paul, Minn., $1.69 net, 7½ cts. sacks; Guarantee Cement & Stone Co., Minneapolis, Minn., $1.81, net, 10 cts. sacks. Vitrified clay pipe (1) Red Wing Sewer Pipe Co.; (2) Landers, Morrison, Christenson Co., Minneapolis: 6-in. (1) 10 cts. per ft.; (2) 9.6 cts. per ft. 9-in. (1) 16½ cts. per ft.; (2) 17 cts. per ft. 12-in. (1) 30 cts. per ft; (2) 31¼ cts. per ft. 15-in. (1) 42 cts. per ft.; (2) 43 cts. per ft. 18-in. (1) 60 cts. per ft.; (2) 62 cts. per ft. 24-in. (1) $1.25 per ft.; (2) $1.30 per ft. 6-in. slants (1) 30 cts. per ft.; (2) 32 cts per ft. Andrew Rinker is City Engr.

ABERDEEN, S. DAK.—It is reported that this city will build a sewerage system to cost $75,000. D. C. Washburn is City Engr.

ST. JOSEPH, MO.—We are informed by W. H. Floyd, Jr., City Engr., that plans are being prepared for about 20 miles of district sewers.

LITTLE ROCK, ARK.—The contract for work in Sewer District 36, on State St., has been awarded to the NICK PEAY CONSTRUCTION CO.

OKLAMOHA CITY, OKLA.—N. S. SHERMAN has been awarded contract for building the 9th St. sewer at $4,182. W. C. Burke is City Engr.

TACOMA, WASH.—Contract has been awarded to FRANK A. KEASAL for construction of sewer at $14,365.

SEATTLE, WASH.—T. E. DICKEN & CO. have received the contract for constructing sewers in E. Cherry St. at $4,198. R. H. Thompson is City Engr.

SAN JOSE, CAL.—Contract for the construction of sewers in several streets has been awarded to RICHARD FARRELL.

SAN FRANCISCO, CAL.—We are officially informed by Thos. P. Woodward, City Engr., that contracts will soon be let for sewer construction in several streets at a total cost of $115,850. A sale of $500,000 additional bonds has been recommended and it is expected that this amount will be expended during the year.

SALT LAKE CITY, TUAH.—Bids are asked until 3 p. m., April 11, by the Board of Public Works, for constructing all pipe sewers that may be ordered by the city from April 1 to October 31. F. J. Leonard is Chn. (Advertised, Engineering News.)

CALGARY, ALTA.—It is said that a trunk sewer to cost $70,000 will be constructed at this city.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

EAST ORANGE, N. J.—An ordinance has been passed by the council authorizing the engagement of an engineer to investigate and report on the feasibility of installing a combined garbage crematory and electric light plant. R. H. V. Reimer is City Engr.

DONORA, PA.—We are officially informed that this city contemplates the erection of a garbage plant. Geo. W. Allen is Chn. Bd. Trustees.

WILMINGTON, DEL.—It is reported that plans and specifications have been prepared for a garbage disposal plant, and are in the hands of the crematory committee of City Council.

TAMPA, FLA.—Bids are asked until April 1 by the Board of Public Works for the construction of an incinerating plant for the disposal of garbage. W. R. Fuller is Pres. (Advertised, Engineering News.)

BARBERTON, O.—It is reported that a garbage disposal plant will be erected here. Dr. B. Rodenbaugh is Health Officer.

CHICAGO, ILL.—M. J. Doherty, Supt. of Sts., has recommended that a municipal garbage disposal plant be erected at the city workhouse, and will fight the awarding of contracts to private firms.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NEWTON, MASS.—Bids are asked until March 15, by Chas. W. Ross, Street Comr., West Newton, for laying tar concrete sidewalks and gutters and for repairing old work during the year 1906.

PLAINVILLE, CONN.—Bids are asked until 2 p m., March 17, for grading and macadamizing roads. P. J. Prior is Selectman.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 23, by John F. Ahearn, Pres. Boro. Manhattan, for grading, paving and constructing parkway on Seventh Ave., from 110th St. to 153d St.; also for rebuilding retaining wall, curbing and flagging on west side of Ft. Washington Ave.

EAST HAMPTON, N. Y.—Bids are asked until 2 p. m., March 24, by the Commissioners of Highways for improving about 19 miles of roadways. Swinburne & Clark, 156 Fifth Ave., New York, are Engrs.; James E. Gay, Comr. (Advertised, Engineering News.)

ROCHESTER, N. Y.—Bids for paving several streets have been received. Whitmore, Rauber & Vicinus were low bidders for paving Milburn St. at $18,851 for asphalt, $17,843 for trap rock and $21,974 for brick; for paving Avenue A at $31,585 for asphalt; for paving Graceland Pl., at $5,124 for asphalt and for paving Hoelzer St. at $8,057 for asphalt. Brayer & Albaugh were low bidders for paving with brick, as follows: Avenue A, $36,146; Graceland Pl., $5,400, and Hoelzer St., $9,091.

OSWEGO, N. Y.—It is reported that the BARNETT CONSTR. CO., of Oswego, has secured the contract for paving portions of W. Bridge and Water Sts., with Metropolitan block, at $6,000. Chas. H. Snyder is City Engr.

WATERVLIET, N. Y.—Bids are asked until March 15, by the Public Improvement Commission, for construction of new curbing and gutters and repairs to those already in place. W. G. Staley, Secy.

BALTIMORE, MD.—Bids were opened Mar. 7 by the Board of Awards for paving Lexington St., between Calvert and Charles with vitrified brick. The following bids were received: J. F. Gantz & Co., $1.88; F. E. Schneider & Co., $2.10; P. F. Reddington, $2.18, and Wm. M. Elder, $2.19 per sq. yd. The following bids were received for paving Patuxent St., with asphalt blocks: Barber Asphalt Paving Co., Philadelphia, $2.29 per sq. yd., for concrete base, $2.26 for gravel base; curbing, $1.15 per yd. Maryland Pavement Co., 6 East Lexington St., Baltimore, $2.32 for concrete base, $2.28 for gravel; curbing, 95 cts.

The United States Wood Preserving Co., who control the patent for this material were sole bidders for the paving of Calvert St., between Fayette and Lexington, with creoresinate blocks, at $2.48 per sq. yd., and the contract will be awarded to them.

PATRICK KEELTY was awarded the contract for grading Patuxent St., at 49¾ cts. per cu. yd.

We are officially notified that all bids for grading at Roland Park have been rejected. Noted in issue of Feb. 15. B. T. Fendall is City Engr.

BIRMINGHAM, ALA.—J. S. CONNIFF & CO., Montgomery, Ala., have been awarded the contract for laying cement sidewalks here at 14 cts. per sq. ft. Allen R. Gilchrist is City Engr.

MIDDLETOWN, O.—Bids are asked until noon, March 16, for grading S. Young St. and portions of Grand Ave. and Baltimore St. N. G. Oglesby is City Clerk.

CAMBRIDGE, O.—Bids are asked until March 22, by the Board of Public Service, for grading, curbing and paving nine streets with vitrified brick, block or sheet asphalt. O. M. Hoge is City Engr.

NEWBURG, O.—Bids are asked until noon, April 4, for grading Rice Ave. W. H. Jantzen is Clk. Bd. Pub. Service.

YOUNGSTOWN, O.—Bids are asked until March 24 for building nine miles of macadam roads. Geo. M. Montgomery is County Surv.

Bids are asked until noon, March 21, by the Board of Public Service for grading and paving several street. G. T. Prosser is Clk.

KOKOMO, IND.—The Board of Public Works will soon ask for bids for paving several streets with brick and macadam. C. E. Mann is City Engr.

FT. WAYNE, IND.—Bids are asked until 7.30 p. m., March 29, by the Board of Public Works for paving Wallace St., 15,183 sq. yds., with lake asphalt. F. M. Randall is City Engr.

VERSAILLES, IND. — HARRY DOBSON, Bloomington, Ind., has been awarded contract for the construction of eight miles of 92-ft. macadam roads at $23,985. Nicholas Volz is County Audr. Mentioned in issue of Feb. 15.

SOUTH BEND, IND.—It is said that this city is planning to construct 72,000 sq. ft. of cement sidewalk and 7,000 lin. ft. of curb. A. J. Hammond is City Engr.

TERRE HAUTE, IND.—The Board of Public Service is reported to have ordered the paving of Third St., from Ohio to Hulman St., 1⅛ miles in length, with vitrified brick; probable cost will be $43,000. Edgar Schmidt is City Engr.

BAY CITY, MICH.—Bids are asked until 2 p. m., March 19, by the Board of Public Works, for paving Belinda St. with vitrified brick on a 6-in. concrete foundation. C. J. Barnett, Secy.

CALUMET, MICH.—R. S. BLOME & CO., Chicago and JAMES J. BYER, Houghton, have been awarded contracts for paving and cement sidewalks, at $125,000.

BAY CITY, MICH.—Bids for paving Broadway, Garfield Ave. and Lafayette Ave. have been received. Low bidders were, Hugh Campbell, for paving Broadway, and Wm. J. Meagher, for paving the other two streets. A. Turner is City Engr.

PONTIAC, MICH.—Contract for 8,668 sq. yds. of paving on South Saginaw St. was let to CHAUNCEY & ROSS, Ann Arbor, Mich. Wm. J. Fisher is City Engr.

GRAND RAPIDS, MICH.—Bids are asked until 2 p. m., March 24, by the Board of Public Works for paving West Bridge St. S. A. Freshney is Secy.

MANISTEE, MICH.—Contracts for paving and curbing several streets have been awarded as follows: CENTRAL BITULITHIC PAVING CO., Detroit, for bitulithic on concrete base, at $39,821; NELSON & HANSON, Manistee, for combined curb and gutter, at 39½ cts. per lin ft.

BELLEVILLE, ILL.—Council has passed ordinances for paving several streets, at an estimated cost of $125,000, and we are officially informed that bids will be asked in May. L. L. Harper is City Engr.

PEORIA, ILL.—Bids are asked until 2 p. m., March 19, by the Board of Local Improvements, for paving several streets. E. A. Furry is Pres.

EDWARDSVILLE, ILL.—Bids are asked by the Board of Local Improvements until 2 p. m., March 22, for the construction of vitrified brick paving on concrete foundation. H. G. Hotz, Pres.; John E. Burns, Secy.

HARLEM, ILL.—Bids are asked until 8 p. m., March 22, by the Board of Local Improvements for constructing a brick pavement on S. Circle Ave. Robt. E. Williams, Room 701, 84 LaSalle St., Chicago, is Engr. Otto F. Hintze, Pres.

DANVILLE, ILL.—WARRENS BROS. CO., Boston, have been awarded the contract for paving Vermillion St., at $62,000. W. H. Martin is City Engr.

GREEN BAY, WIS.—Specifications and blank proposals for paving several streets in this city, as noted in issue of March 8, are on file at the office of Engineering News, New York.

SHEBOYGAN, WIS.—Bids are asked until 4 p. m., March 16, by the Board of Public Works for 26,240 sq. yds. of vitrified brick paving. C. V. Boley is Chn.

DES MOINES, IA.—Bids [illegible] 11 a. m., March 23, by the [illegible] Works, for the constructio[illegible] ment sidewalks during th[illegible] W. Wise is Pres.

The contract for paving [illegible] yds. on Fourth St. with [illegible] to have been awarded to [illegible] PHALT PAVING CO., of [illegible] $1.72 per sq. yd. This com[illegible] the contract for paving [illegible] Court to Carpenter Ave. [illegible] sq. yd.

MINNEAPOLIS, MINN. [illegible] contracts for paving ma[illegible] awarded: REPUBLIC CR[illegible] Indianapolis, Ind., 40,000 [illegible] block, Norway pine, at $1[illegible] KETTLE RIVER QUARRI[illegible] apolis, Minn., 40,000 sq. yd[illegible] ing blocks, at $1.51 per sq [illegible] ft. sandstone curb, 5 x 18 [illegible] per ft.; 5 x 18, radius, 58 cts [illegible] straight, 50 cts. per ft.; 5 [illegible] cts. per ft.; 6 x 20, straigh[illegible] 6 x 20, radius, 70 cts. per [illegible] PAVING BRICK CO., 40,000 [illegible] at 86.6 cts. per sq. yd.; NO[illegible] GRANITE CO., St. Cloud, [illegible] granite curb, straight, 63 cts [illegible] per ft.

Bids are asked until March [illegible] sq. yds. of asphalt resurf[illegible] Rinker, City Engr.; E. R. Du[illegible] Engr.

LINCOLN, NEB.—Bids are [illegible] a. m., March 17, by Thos. [illegible] Clk., for grading several str[illegible]

LINCOLN, NEB.—Bids are [illegible] a. m., March 17, for gradin[illegible] Thos. H. Pratt is City Clk.

FARGO, N. DAK.—Bids a[illegible] March 26 for paving Broad[illegible] Crabbe is City Engr.

EL PASO, TEX.—The contra[illegible] cement sidewalks around the [illegible] of the city has been let to [illegible] BARNUM & MITCHELL.

PASADENA, CAL.—The contract for street work on Hope St. from Meridian to Fremont was awarded to H. C. CUSHING at following prices: 44 cts. per sq. yd. for grading; 20 cts. per ft. for curbing; and 10 cts. per ft. for sidewalks. J. D. Allin is City Engr.

SAN DIEGO, CAL.—The SOUTHERN CONSTRUCTION CO. has been awarded contract for grading Adams Ave. at the following prices: 42 cts. per cu. yd. for excavating, 13 cts. per cu. yd. for fill, $9,120 for bridge and $235 for culvert.

SALT LAKE CITY, UTAH.—Bids are asked until 3 p. m., April 11, by the Board of Public Works for constructing all cement sidewalks to be ordered by the city from April 1 to October 31.

Bids are asked until 3 p. m., April 11, by the Board of Public Works, for grading, curbing and paving State St. and 4th St.

Bids are asked until 3 p. m., April 11, for curbing and paving Temple St. F. J. Leonard, Chn. (Advertised, Engineering News.)

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

NORWOOD, MASS.—The Winslow Bros & Smith Co., manufacturers of leather, is reported to be planning to erect a 6-story building of solid concrete and expanded metal.

BEVERLY, MASS.—The United Shoe Machinery Co. has let a contract to RAMSON & SMITH to build an addition, 100 x 100 ft., to its foundry. It will be of reinforced concrete.

HARTFORD, CONN.—It is reported that the Pratt & Whitney Co. has awarded the contracts for the new machine shops, which will occupy the present site of the foundry, as follows: Structural steel construction, BERLIN CONSTRUCTION CO., of Berlin, Conn., masonry, carpentry and concrete work, WILLIAM F. O'NEIL, of Hartford, with the sub-contract for the concrete to the EASTERN EXPANDING METAL CO., of Boston, Mass. The total cost of the building, exclusive of the equipment, will be about $200,000.

PELHAM, N. Y.—H. WALES LINES CO., of Meridan, Conn., it is stated, has secured the contract to erect the plant in Pelham for the Sanborn Map Co., 11 Broadway, New York. The contract includes five fireproof buildings, each two stories high, of brick and terra cotta.

BINGHAMTON, N. Y.—It is stated that A. E. Nettleton, of Syracuse, will erect a 4-story brick or concrete shoe factory, 50 x 100 ft., at this place.

NEW YORK, N. Y.—F. H. Quimby, Arch., 99 Nassau St., has plans completed for a factory to be erected at 423-431 East 53d St., for T. E. Heigert, 384 Second Ave. Building will be eight stories, 125 x 140 ft.

NEW YORK, N. Y.—Buchman & Fox, Archs., 11 East 59th St., have completed plans for an addition to the factory of the Tremont Silk Mills, at Park Ave. and Ittner Place. Building will be brick and stone, 5-story, 50 x 150 ft.

PHILADELPHIA, PA.—We are officially advised that the Standard Roller Bearing Co., of this city, will erect a 4-story factory building, 150 x 200 ft., for the manufacture of annular ball bearings. S. S. Eveland is Vice-Pres. and Gen. Mgr.

PHILADELPHIA, PA.—Doyle & Doak, 1509 Sansom St., has plans for a 3-story brick glue factory at Ontario and Bath Sts., 225 x 79 ft., for the Berg Glue Co. The cost will be about $50,000.

DUNBAR, PA.—The plant of the Dunbar Brick Co., recently burned, will be rebuilt at once, at a cost of $100,000. Thomas B. Palmer, Uniontown, Pa., is interested.

DENVER, PA.—E. Z. Scholl, Arch., Reading, is preparing plans for a factory for the Denver Shoe Co. Building will be 36 x 100 ft., of mill construction. H. H. Hart is Pres., at Denver.

LANGHORNE, PA.—T. J. McIlvain & Co. have invited bids on the construction of an addition to a paper mill at this place. Stone, 1-story, 300 × 70 ft.

BALTIMORE, MD.—Plans have been prepared by Charles M. Anderson, Arch., 324 N. Charles St., Baltimore, for the construction of two buildings for the Crown Cork & Seal Co. on Eastern Ave. The structures are to be of mill construction, brick and granite, one building five stories high, 100 × 282 ft., the other three stories, 50 × 157 ft. They will be equipped with electric wiring and steam heating apparatus and elevators will be installed in fireproof shafts. Two water towers of 15,000 gallons capacity will be erected, the towers over the roof of the 5-story structure.

WASHINGTON, D. C.—A bill has been introduced in the House of Representatives appropriating $[illegible]00 for the construction of a government gunpowder plant capable of manufacturing 1,000 lbs. of powder daily.

ENSLEY, ALA.—T. C. THOMPSON & BRO. have been awarded the contract, according to reports, for rebuilding the nail mills of the Southern Steel Co. at Ensley, which were destroyed by fire recently. The plant is being put up with structural iron, and cement flooring. Machinery has been purchased.

LORAIN, O.—The AMERICAN BRIDGE CO., Rockefeller Bldg., Cleveland, it is reported, has secured the contract to erect a steel building, 220 × 245 ft., in Lorain, for the American Ship Building Co., at a cost of about $120,000.

CLEVELAND, O.—Bids are being received by Richards & Watts, Archs., 314 Bangor Bldg., for the construction of a brick and steel building in addition for the Acme Machinery Co., on St. Clair Ave.

PORTSMOUTH, O.—We are officially advised that plans have not been completed for the proposed extensions to the plant of the Irving Brew Co., noted last week. Building probably will be of brick, mill construction, 50 × 125 ft., and five stories high.

CHICAGO, ILL.—L. G. Hallberg, Arch., 84 LaSalle St., is preparing plans for a factory building, to be erected at Ohio St. and LaSalle Ave., for Chicago Flexible Shafting Co. To be eight stories, 45 × 100 ft., brick and stone, costing $60,000.

GRANITE CITY, ILL.—The JOILET BRIDGE & IRON CO., Joliet, Ill., has been awarded the contract for erecting the steel building addition, 78 × 125 ft., to the plant of the Commonwealth Steel Co.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

TUNNEL.—See under Railways: Morehead & North Fork R. R.

DITCH.—Vermillion, S. Dak.—Bids are asked until 2 p. m., April 4, for the excavation and completion of Irene ditch. Ralph Case, County Audr.

CEMENT.—Chicago, Ill.—Bids are asked for 50,000 bbls. Portland cement for delivery at Chicago, St. Louis and Kansas City. Parker-Washington Co. (Advertised, Engineering News.)

DITCH.—Anoka, Minn.—Bids are asked until March 23 by the Board of County Commissioners for constructing Ditch No. 42. Arthur A. Caswell, County Audr.

BREAKWATER.—Summerside, P. E. I.—HENEY & SMITH, of Ottawa, Ont., are reported to have secured the contract for the Summerside breakwater, at about $140,000.

DUMP CARS.—Winnipeg, Man.—Bids are asked until March 27, 3.30 p. m., for six gondola hopper dump cars. C. J. Brown, City Clk. (Aedvertised in Engineering News.)

DITCH.—St. Cloud, Minn.—The County Commissioners are reported to have awarded to O. F. DOYLE the contract for constructing the Getchell Creek ditch and branch No. 3, for $34,000.

CONCRETE MIXING MACHINE.—Winnipeg, Man.—Bids are asked until 3.30 p. m., March 27, for supplying a concrete mixing machine. C. J. Brown, City Clk. (Advertised in Engineering News.)

ASPHALT.—Winnipeg, Man.—Bids are asked until 3.30 p. m., March 27, for supplying from 1,000 to 3,000 tons of asphalt for street paving. See under Streets and Roads. (Advertised, Engineering News.)

DREDGING.—Baltimore, Md.—The Baltimore Board of Awards has awarded contract to the MARYLAND DREDGING & CONTRACTING CO., 803 Fidelity Bldg., Baltimore, at $47,500, for dredging the harbor and basin.

DITCH.—Albert Lea, Minn.—The contract for constructing the Nelson ditch in Hayward is reported to have been awarded to CALLAHAN & CO., Omaha, Neb., at 11¾ cts. per cu. ft. for earth removed. Total cost, $25,058.

STEAM SHOVEL WORK, ETC.—Jeffersonville, Ind.—Charles Fisk, Jr., Jeffersonville, desires to sublet 150,000 cu. yds. steam shovel work, 200,000 cu. yds. scraper work, 4,000 cu. yds. concrete masonry. (Advertised in Engineering News.)

SPRINKLING.—New York, N. Y.—Bids are asked until 2 p. m., March 22 (Contract No. 990), for furnishing all the labor and materials required for sprinkling certain newmade land on the North and East Rivers. J. A. Bensel, Comr. Docks.

CONCRETE WALL.—Kansas City, Mo.—E. A. Harper, City Engr., advises us that bids are asked until March 21 by the Board of Public Works for a concrete wall along west side of Fairmont Ave., from 24th to 25th Sts. Estimated cost, $18,000.

CONCRETE WALL, ETC.—Newark, N. J.—Bids are asked until 3.30 p. m., March 20, for construction of a concrete retaining wall, etc., in Branch Brook Park, Newark. A. Church, Secy. Essex County Park Comn. (Advertised, Engineering News.)

REVENUE CUTTER.—Wilmington, Del.—PUSEY & JONES, Wilmington, Del., have received a contract for the construction of the twin-screw propeller revenue cutter No. 15 for duty on Albemarle and Pamlico Sounds. The contract price is $167,750.

DREDGING.—Philadelphia, Pa.—Bids are asked until noon, April 2, for dredging the channel of the Delaware River. Thomas L. Hicks, Dir. Dept. Pub. Wks. (Advertised, Engineering News.) Specifications are on file at office of Engineering News, New York.

PIERS, SHEDS, ETC.—Brunswick, Ga.—Bids are asked until noon, March 26, for (1) construction of two piers; (2) for construction of sheds on piers and four storehouses on shore, at Brunswick, Ga., for the Fore River Shipbuilding Co. (Advertised in Engineering News.)

RIP-RAP.—Baltimore, Md.—CHARLES G. SMITH & SONS, 3218 K St., N. W., Washington, have received contract from Lieut.-Col. R. L. Hoxie, U. S. Engineer Corps, for 1,000 cu. yds. of rip-rap stone for delivery at Nomini Creek, Virginia, at $2.67 per cu. yd. Bids were opened Feb. 27.

RECLAMATION WORK.—Sacramento, Cal.—The Sacramento Drainage Commission is reported to have appointed J. W. Kaerth, of Colusa, as Supervising Engineer in charge of the improvement of the entire valley and the reclamation of all overflowed land tributary to the Sacramento River.

IRRIGATION DITCHES.—Hazen, Nev.—Bids are asked until 10 a. m., April 19, for the construction of about 145 miles of irrigation ditches, involving about 600,000 cu. yds. of excavation, with structures and bridges, in Carson Sink Valley. E. A. Hitchcock, Secy. Dept. Interior. (Advertised in Engineering News.)

SEA-WALL.—San Francisco, Cal.—It is reported that bids will be received by the Secretary of Harbor Commissioners until April 5 for the construction of a section of the sea-wall, from plans prepared by Lott D. Norton, Ch. Engr., to extend from the northerly end of Section B along the water front line.

AIR COMPRESSORS, ETC.—Pittsburg, Pa.—Bids are asked until noon, April 2, for furnishing and erecting eight 85-B. H. P. gas engines and eight belt-driven two-stage air compressors, two of each at four dams on the Ohio River. Major William L. Sibert, Corps. Engrs. (Advertised in Engineering News.)

DREDGING.—Rock Island, Ill.—Bids were received on March 6 by W. Freichler, Engr., for dredging and levee work in connection with the improvement of Copperas Creek, as follows: Frank B. Stevens, Geneseo, Ill., 11 cts. per cu. yd.; R. H. McWilliams, Mattoon, Ill., 13.94 cts.; Brown & Langdon, Quincy, Ill., 15 cts.

LEVEE.—Piggott, Ark.—Bids are asked until April 2 by the Board of Directors of St. Francis Drainage District of Clay and Greene Counties for furnishing material and enlarging a total of 12 miles of levee; for constructing 7 1-5 miles levee and for dredging 20¼ miles of main drainage ditch. J. D. Block, Pres.

TELEPHONE SYSTEM.—Salt Lake City, Utah.—Bids are asked until 2 p. m., May 2, for installing a telephone system having four telephone stations and about 35 miles of pole line, in connection with the Strawberry Valley Reclamation Project. George L. Swendsen, Engr., Salt Lake City, Utah. (Advertised in Engineering News.)

DAM, CRIBS, DIKE, ETC.—Cincinnati, O.—Bids are asked until 2 p. m., April 10, for construction of dam with abutment, and protection crib, a dike, one dwelling house, one office building, two cisterns, and repairs to old dwelling and two outhouses at Lock No. 10, Kentucky River, at Ford, Ky. Major J. G. Warren, Engrs. (Advertised, Engineering News.)

CANAL.—Glendive, Mont.—Bids are asked until 10 a. m., April 12, for the construction of about 26¾ miles of canal near Glendive, Mont., involving the excavation of approximately 2,662,900 cu. yds. of earth and 1,200 cu. yds. of rock and for furnishing material. E. A. Hitchcock, Secy. Dept. Interior, Washington, D. C. (Advertised, Engineering News.)

CANAL.—Worland, Wyo.—CLEMENT & STRANGE, Salt Lake City, Utah, have been awarded contract for construction of 20-mile section of canal at Worland, at 19½ cts. per cu. yd. for 350,000 cu. yds. of earth; 18 cts. for gravel; 42 cts. for loose rock, and 90 cts. for solid rock. F. H. Whiting, Ch. Engr., Big Horn County Irrigation Co., Basin, Wyo.

DITCHES.—Webster City, Ia.—F. E. SPRAGUE, Des Moines, Ia., secured the contract for the Rude ditch, at $12,887; NORTHERN CONSTRUCTION CO., Elkhart, Ind., the Johnston and Castner-Williams ditches, at $54,179; COOK CONSTRUCTION CO., Des Moines, Ia., the Littles-Peterson ditch, at $8,940; PARKER & GERBER, Williams, Ia., the Huffman ditch, at $13,392.

TWO STEEL SNAGBOATS.—Vicksburg, Miss.—Bids were received by Capt. G. M. Hoffman, Corps Engrs., on March 10 for construction of two steel snagboats, as follows: (a) for one boat (b) for two boats: Edward J. Howard, Jeffersonville, Ind., (a) $42,483, (b) $84,966; Thomas M. Rees, Pittsburg, Pa., (a) $65,600, (b) $129,000; M. A. Sweeney Shipyard & Foundry Co., Jeffersonville, Ind., (a) $54,840, (b) $107,500.

REPAIRING WALL, ETC.—Savannah, Ga.—Bids were received on March 2 for repairing and raising the training wall in Brunswick inner harbor, Georgia, and the jetty at the mouth of Jekyl Creek, Ga., by Lieut. Col. James B. Quinn, Corps Engrs. The bids were: 2,000 cu. yds. stone in place (price given per cu. yd.): RODERICK G. ROSS, Jacksonville, Fla., $3.44 (awarded contract); Richard Parrott, Newburgh, N. Y., $4.10.

DREDGING.—Savannah, Ga.—The following are the bids opened on March 2 by Lieut. Col. James B. Quinn, Corps. Engrs., U. S. A., for dredging waterway between Savannah and Fernandina, Fla., 172,000 cu. yds. (price given per cu. yd.): P. SANFORD ROSS, Inc., Jersey City, N. J., 15.2 cts. (awarded contract); Southern Dredging Co., Mobile, Ala., 18 cts.; Ernest L. Miner, Petersburg, Va., 24.75 cts., and Savannah Dredging Co., Savannah, 24.9 cts.

CEMENT.—Washington Barracks, D. C.—The following are the bids opened on Feb. 28 by Capt. John Stephen Sewell, Corps Engrs., U. S. A., for 12,000 bbls. Portland cement for the U. S. Soldiers' Home: (a) price per bbl.; (b) brand. For each sack not returned 7½ cts. is charged: Atlas Portland Cement Co., New York, N. Y., (a) $1.62 net, (b) Atlas; Wm. Wirt Clarke & Son, Baltimore, Md. (two bids), (a) $1.72 net, (b) Pennsylvania; (alternate) (a) $1.97, (b) Northampton; National Mortar Co., Washington, (a) $1.59 net, (b) Dragon.

GATES, LIFTING DEVICES.—Boise, Idaho.—The Secretary of the Interior, on March 10, awarded a contract for the work of schedule No. 7 for the gates and lifting devices to be used in connecting with the Payette-Boise Project, Idaho, to the UNITED IRON WORKS, of Oakland, Cal., the second lowest bidders under the contract. The bid of the Chapman Valve Co., of Indian Orchard, Mass., although the lowest, was rejected for the reason that this company submitted a bid for one device which they proposed to use on all the gates, whereas the schedule calls for bids on four devices, each having the specified lifting power.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

AQUEDUCT, SEWERS.—Cienfuegos, Cuba.—This city has awarded contract for building an aqueduct and sewer system to HUGH J. REILLY, 22 East 21st St., New York, at $2,300,000.

SUCTION DREDGES.—Panama.—Bids are asked until 10.30 a. m., April 3, for furnishing two sea-going suction dredges. D. W. Ross, General Pur. Officer, Isthmian Canal Comn., Washington, D. C. Specifications and copies of bidding sheet are on file at New York office of Engineering News.

WHARF SHEDS AND RAILWAY.—Manila, P. I.—Bids are asked until 11 a. m., May 4 for the construction of two steel wharf sheds and wharf railways. Plans and specifications for this work are on file at office of Engineering News, New York. Lt.-Col. W. L. Fisk, Corps Engrs., U. S. A., Dir. Port Wks. (Advertised, Engineering News.)

REFRIGERATING PLANT.—Panama.—The YORK MANUFACTURING CO., of York, Pa., has been awarded a contract by the Panama Railway Co., for an ice-making and refrigerating plant for Colon, Isthmus of Panama. The machinery consists of three 75-ton refrigerating machines, one 10-ton machine, and one 65-ton ice-making and refrigerating plant.

SEWER SYSTEM, WATER SYSTEM.—Honolulu, Hawaii.—Bids are asked by W. H. Miller, Deputy Q. M., General, 39 Whitehall St., New York, N. Y., until 3 p. m., April 14, for constructing sewage system, bacterial sewage purification plant, water distributing system and sinking 10-in. tubular well at new military post at Kahauiki, Honolulu, H. I. Plans and specifications may be seen at office of Depot Quartermaster, New York.

SUPPLIES.—Panama.—Bids are asked by D. W. Ross, Gen. Pur. Agt., Isthmian Canal Comn., Washington, D. C., until 10.30 a. m., March 19, for a large quantity of supplies of various kinds. Those of especial interest to engineers are: 260,000 lbs. track bolts and spikes; 200,000 bbls. Portland cement; 714,000 ft. B. M. lumber (flooring, siding, ceiling and finishing), forging machines and cast-iron bends, etc.

RAILROADS.—Philippine Islands.—The Philippine Railway Construction Co. has been incorporated in New Jersey with capital of $1,000,000, to build and operate railroads in the Philippine Islands and elsewhere. The incorporators include: A. C. Wall, 1 Exchange Place, Jersey City; J. P. Carter and E. B. Bruce, 52 William St., New York City.

STEEL TANK.—Philippine Islands.—Bids are asked by H. T. B. Harris, Paymaster Gen., U. S. N., Navy Dept., Bureau of Supplies and Accounts, until 10 a. m., April 3, for furnishing the naval station, Olongapo, P. I., one 100,000-gallon elevated steel tank. Delivery to be made on the water front at New York, N. Y., or San Francisco, Cal., at the option of the contractor. Applications for proposals should refer to Schedule 395.

SUBMARINE CABLE.—Cuba and Panama.—The Secretary of War has submitted to Congress an estimate of $927,000 for the construction of a submarine cable from Key West, Fla., to Guantanamo, Cuba, and thence to the Panama Canal Zone. The estimate was made by Gen. Allen, signal office of the army, who prepared it at the request of Secretary Taft. A note enclosed with the report states that both army and navy officers believe the cable necessary to American interests.

CIVIL SERVICE EXAMINATIONS

CHIEF HARBOR ENGINEER.—Chicago, Ill.—The Civil Service Commission of Chicago announces an examination for the position of Chief Harbor Engineer of the city of Chicago, at $5,000 per year, to be held March 19. The candidates should be competent to design and construct bridges, should have thorough knowledge of the theory of strains and stresses, mathematics, electricity incidental to bridge construction, theory of pneumatics and machinery in general, hydrographic and city surveying, timber and concrete dock construction, construction of bulkheads and breakwaters, building foundations, steel building construction, fireproofing and reinforced concrete work, and should be familiar with the duties and requirements of the Map Bureau. William E. Rafferty, Secy.

READERS' WANTS FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, **mention Engineering News.** Have you a copy of our Buyers' Guide? **Engineering News Can Help Buyers.**

SMALL STONE CRUSHER.—Rutherford, N. J.—Henry C. Herrington writes us that he is in the market for a small crusher.

BRICK MAKING MACHINERY.—Cuba.—J. F. Adams Eng. Co., Cuba 76, Havana, writes us that it wants prices on brick making machinery, etc.

WATERPROOF PAINT.—Baltimore, Md.—F. Gould, Box 548, writes us for the names of makers of waterproof paint, suitable for use on stucco or cement houses.

CEMENT TOOLS, ETC.—Schenectady, N. Y.—V. C. Scott & Co., dealers in coal and wood, 114 So. Centre St., write us that they are in the market for cement tools, etc.

ASPHALT PAVING BLOCKS.—Spartanburg, S. C.—Fred L. Bryant, Consult. Engr., writes us that he wants the names of makers of asphalt blocks for street paving.

WINDMILLS, TOWERS, ETC.—Buffalo, N. Y.—C. S. Sanders, of the Buffalo Pole Line Constructing Co., 651 Ellicott Sq., writes us for the addresses of makers of the above.

GASOLINE GAS WORKS.—Elkader, Ia.—M. J. Poull, of Elkader, writes us that he intends to build gasoline works for a town of 1,300 and wants data regarding such plans.

AGENCY.—New York, N. Y.—A correspondent, just completing a trip around the world, writes us that he prepared to act as agent for concerns who have small appliances.

REFRIGERATING AND ICE-MAKING MACHINES.—Hannibal, Mo.—A. G. Schnitzer, 714 Broadway, Hannibal, writes us that he wants the names of makers of the above, 10-ton capacity preferred.

WOOD WORKING MACHINERY.—Vernon, Fla.—F. M. Gideon, of Vernon, writes us that he wants the addresses of firms making wood working machinery, lathes, etc.: "I cannot find such advertisers in the Engineering News."

MOTOR CARS.—Corsicana, Tex.—Geo. A. Duren, Contracting Engr., writes us for the addresses of builders of motor cars for interurban traffic. "I find that they do not advertise, and so am ignorant of their addresses."

FIREPROOF DOORS.—Washington, D. C.—J. P. Mulhall, of the Gov. Hospital for the Insane, writes us that he is in the market for fireproof doors that swing on hinges. "I can find ads. in your paper of folding and rolling doors, but the ordinary type of doors I have not been able to find."

BRICK MAKING MACHINERY.—Mound City, Ill.—Roy N. Adams writes us that he wants the names of firms making machinery for turning out brick from clay. Mr. Adams has the clay and some capital, and desires to install a small plant.

RED BUILDING BRICK.—New York, N. Y.—The Met. Sewer Pipe Co., Aug. Baus, Mgr., Bedford Park Sta., 206th St., New York, writes us that it is in the market for the ordinary red building brick, and wishes to get in touch with manufacturers only.

BRICK AND TILE MAKING MACHINE.—Panama.—J. F. Horkinson, Asst. Ch. Sanitary Inspector, Paraiso, Canal Zone, writes us, by order of the Chief Sanitary Inspector, for addresses and catalogues of small brick and tile making machines, with clay mixture, etc.

CONCRETE BUILDING BLOCK MACHINES.—New York, N. Y.—The Am. Dittler Sewage Disposal Co., W. H. Schladitz, Secy. and Mgr., writes us that it wants the names of makers of concrete block machines, etc., to be used in constructing its septic tanks.

STRUCTURAL STEEL.—South Africa.—We are informed by Ernest Petersen, Acting Consul-General of the Argentine Republic for British South Africa, Capetown, that he is in the market for structural steel in large quantities. He also wishes to be placed in correspondence with reliable parties who will act as agents for him in the U. S. Mr. Petersen is now visiting the U. S., and may be addressed at 370 Lexington Ave., New York.

STONE CRUSHING PLANT.—French China.—Thos. W. Clarke, Engr. and Asst. Supt. of Construction, Standard Oil Co., Hongkong, China, writes us that P. Ducleux, a leading contractor and engineer of Haiphong, Tong King Province, French China, is in the market for a complete modern stone crushing plant. Complete data, prices, weight, power required, etc., must be sent at once, stating cost aboard ship at Haiphong. As this is an important item for China, and as it takes a long time to receive a reply, the fullest details possible should be sent. Mr. Clarke kindly offers to assist U. S. makers in connection with the plant.

ARCHITECTURAL DRAFTSMAN.—New York, N. Y.—The Municipal Civil Service Commission will hold an examination on April 25 for the position of architectural draftsman, at $2,000 to $2,600 per year. W. F. Baker, Pres.

ARCHITECTURAL DRAFTSMAN.—New York, N. Y.—The Municipal Civil Service Commission will hold an examination on April 18 for the position of architectural draftsman, at $1,500 to $1,800 per year. William F. Baker, Pres.

COAST ARTILLERY, U. S. ARMY.

MASTER ELECTRICIANS.—Fort Totten, N. Y.—Wanted: Master Electricians for Coast Artillery, U. S. Army. Graduate of standard schools of technology or others of equivalent theoretical education, and three years' practical experience with steam and electricity, under 33 years of age and unmarried. Pay and allowances as follows: Pay, $75 per month. Allowances, house, food, clothing, fuel, light, medical attendance, etc. After 30 years' service, retirement on three-quarters pay and allowances. Apply to Secretary, School of Submarine Defense, Fort Totten. (Advertized, Engineering News.)

INDUSTRIAL NOTES.

An announcement was made two weeks ago in this column of the annual Engineering and Machinery Exhibition to be held in London, England, in September and October of this year. The Exhibition will be held in the Olympia Hall, under the presidency of Sir William H. White, K. C. B., LL. D., F. R. S., and the patronage of the foremost engineers and scientific men in Great Britain and a strong advisory committee. It will be divided into sections representing Mining Machinery and Appliances; Metallurgical Processes; Casting; Forging, Pressing, Rolling and Stamping; Workshop Tools and Appliances; Gas, Steam and Oil Engines; Power Transmission; Lifting Appliances and Construction Plant; Hydraulic Work; Pneumatic Work; Grinding, Crushing and Oil Dressing; Railway Work; Bridge and Roof Work; Naval and Marine Engineering; Weighing and Measuring; Road Locomotion; Electric Appliances; Textile Machinery; Agricultural; Printing; Chemical Plant; Irrigation Work; Sanitary Engineering; Laundry Machinery; Water-Works, and other divisions representing special machinery, etc. In order that American manufacturers desiring representation may be saved the inconvenience of direct correspondence, all details have been filed with Engineering News, and will be gladly furnished on request. In making inquiries refer to "H. F."

RAWSON & MORRISON MFG. CO., of Cambridge, Mass., announces the consolidation of its business with that of the Mead-Morrison Mfg. Co., and hereafter the business will be carried on under their name.

THE BABCOCK & WILCOX CO., of New York, and the STERLING COMPANY, of Barbeton, O., largest steam boiler manufacturers in the country, have consolidated, so it is stated, with a total capitalization of $15,000,000.

THE ABNER DOBLE CO., San Francisco, has recently taken a contract for a Doble tangential water wheel unit which will have a capacity of 13,000 HP. The unit has been ordered by the California Gas & Electric Corporation, for installation in its noted Colgate plant, where it will form an addition to that company's hydro-electric system. It will be of the double-wheel two-bearing type of construction, and when first installed will operate under an effective head of 660 ft., delivering 8,500 HP. It is planned eventually to increase the pressure on one of the wheels by delivering the water through a new pipe line under an effective head of 1,050 ft. This will bring the output of the unit up to 13,000 HP. The unit will operate at a speed of 300 r. p. m. and will drive a 5,500-KW. Westinghouse generator. It will be equipped with a Bethlehem nickel-steel hollow forged shaft, and Doble ring-oiling revolvable-shell bearings, needle regulating and deflecting nozzles, ellipsoidal buckets, and centrifugal water guards. The California Gas & Electric Corporation has also ordered from the Abner Doble Co. a Bethlehem nickel-steel hollow forged shaft, with two 16-in. Doble ring-oiling and revolvable shell bearings for its Centerville plant. The bearings will be equipped with the latest sight-feed oil-distributing system.

THE BRUCE MERRIAN ABBOTT CO., of Cleveland, has recently purchased Allis-Chalmers electrical machinery, consisting of a 62½-KW. type "HI" generator and two 30-KW. type "H" generators. The new equipment will be in readiness for operation early in May. The Nevada Consolidated Copper Co., of San Francisco, whose new 1,000-ton concentrator equipment is being built by the Allis-Chalmers Co., has purchased additional electrical equipment for the plant recently, in the shape of eight 200-KW. oil filled, water cooled transformers, with 20,000 volts secondary. The Allis-Chalmers Co., Milwaukee, reports among recent orders received for Gates rock and ore breakers, the following: Atlanta Office—Two No. 8, style "K," to the Republic Iron & Steel Co., Birmingham, Ala. Pittsburg Office—One No. 8, style "K" breaker, a Gates geared head elevator and a 48-in. × 18-ft. iron frame revolving screen to the Carbon Lime Stone Co. Lowellville, O. El Paso Office—One No. 4, style "K" crusher, equipped with right-hand drive 50-ft. link chain elevator, etc., to Cia Metalurgia de Torrecon, Torrecon, Coah., Mex. The engineering firm of Ford, Bacon & Davis, which has been retained by the Memphis St. Ry. Co., Memphis, Tenn., in the reconstruction of its present properties, has recently let contracts for the Memphis company to the Allis-Chalmers Co. for furnishing a 34-in. and 72-in. × 60-in. Reynolds vertical cross compound engine to be used in direct connection with a 2,000-KW. direct current generator. The new engine, it is estimated, will weigh approximately 322 tons. The Electric Co. of America, with headquarters at Philadelphia, recently purchased for one of its constituent companies, the Atlantic Electric Light & Power Co., of Atlantic City, N. J., two 22 and 36 × 42-in. Allis-Chalmers heavy duty Cross compound engines for direct connection to generators supplying the motor and lighting load for the famous summer resort city.

THE HARRISBURG FOUNDRY & MACHINE WORKS, of Harrisburg, Pa., through its Chicago office (949 Marquette Building, Chicago) reports the following among recent sales of Fleming-Harrisburg engine in Chicago and its vicinity. Some are of the "four-valve" and others of the "piston valve" type, and all but three of the engines are directly connected to electric generators. Where the size is not stated the engines are of less than 500 HP.; Aurora Brewing Co., 2; Butler Bros., warehouse, 3 engines, 800 HP.; Ward-Corby Co., 2 engines; General Chemical Co., 3 engines, 900 HP.; Heyworth Bldg., 3 engines, 750 HP.; Windermere Hotel; Allis-Chalmers Co., 3 engines; Western Electric Co.; American Bottle Co., Streator, Ill.; Western States Portland Cement Co.; Economy Light & Power Co., Joliet, Ill.; Warner Sugar Refining Co., Waukegan, Wis.; Furst Kerber Cut Stone Co., 2 engines, 600 HP.; Columbia Creosoting Co.; Peninsular Construction Co., 2 engines; Sargent & Lundy, 2 engines, 700 HP.; Anheuser-Busch Brewing Association, Chicago branch; Belmont Brewery Co.; U. S. Government dredge; City of Bremen, Ind.; Kaestner & Co.; Fourche River Lumber Co.; Manitowoc Brewing Co.; Keokuk Electric Ry. & Power Co., 500 HP.; "Boston Store," 4 engines, 1,600 HP.; Great Northern Hotel, 3 engines, 1,400 HP.; Brevoort Hotel, 2 engines, 600 HP.; Fort Dearborn Bldg.; Sioux Falls Packing Co.; Eastman Kodak Co.; Western Cold Storage Co., 2 engines, 500 HP.; Comanche Mining & Smelting Co.; Chas. Weisse Tannery Co., Sheboygan, Wis.

THE THOMAS FURNACE CO., of Milwaukee, producers of pig iron, has placed its order with the Allis-Chalmers Co. for a new low-pressure, standard long cross-head type blowing engine. The engine will have steam cylinder 84 ins. in diameter, air cylinder 84 ins. and stroke 60 ins., the weight of the entire unit being approximately 175 tons. The progress of construction on the three million dollar extensions to the West Allis Works of the Allis-Chalmers Co. is steadily being improved. Some idea of the size of the new structure, which will bring the total floor space for the entire plant to 1,513,000 sq. ft., may be gathered from the bill of material used in construction. About 19,000 barrels of Portland cement will be required for the concrete work; 785,000 ft. of roof sheathing will help cover the works, and 850,000 ft. of yellow pine and white oak will support the huge weight of structures and equipment. Even the scaffold lumber, used only temporarily during construction, will aggregate 10,800 pieces. Over 3½ acres of wire glass will be used in skylights and windows, while the weight of new equipment for the interior of machine shops will aggregate 3,080 tons. The German American Portland Cement Works, La Salle, Ill., has recently purchased an additional 5 ft. × 22 ft. Gates dry grinding tube mill from the Allis-Chalmers Co. The new mill will be installed at La Salle, and ready for operation early in the spring. The Kosmos Portland Cement Co., Louisville, Ky., recently purchased additional equipment for the present plant, which consists of a 5 ft. × 22 ft. Gates dry grinding tube mill. The new mill will be furnished by the Allis-Chalmers Co., Milwaukee. The Am. Sugar Refining Co. has completed arrangements for the mechanical equipment for their Chalmette plant, New Orleans. Orders have been placed recently for six horizontal Reynolds-Corliss power engines, 500 HP. each, and two horizontal, double-acting plunger pumping engines, each having a capacity of 12 million gallons daily against a head of 125 ft. The power engines, which are of the heavy duty type, will be arranged in two groups of three each, one for direct connection to 350 KW., A. C. generators, and the other for belt transmission.

THE PELTON WATER WHEEL CO., San Francisco and New York, advises that it is about to place on the market a new and improved type of turbine wheels, to be known as the "Pelton-Francis" turbine. As is generally understood, the Pelton wheel of the impulse type is essentially a high grade tangential wheel, adapted to heads from 25 ft. and upwards; Pelton wheels being employed on all of the higher head water power plants in the world. The prevailing tendency of the electrical manufacturers towards large units and high speeds has encouraged the development of the highest grade Pelton wheel units, built with particular reference to absolutely continuous service, 24 hours a day and 365 days in the year, even for the largest units. Constructions of 10,000 H.P. capacity have now been in satisfactory operation for several years, and are being constantly called for to meet the increasing size of electrical equipments. To anticipate a demand for a high head and large capacity turbine, and to cover a wider hydraulic field, this company has obtained the services of a German engineer of wide experience in this class of work, who with the engineering staff of the Pelton Water Wheel Co. has designed the type of wheel above referred to. This consists of a modification of the "Francis" type of turbine, with which is combined some of the special principles of the Pelton system. A recent order for Pelton wheels is that of the Yukon Consolidated Gold Fields, a corporation in which the Guggenheim Exploration Co. is largely interested. The order consists of two complete Pelton units operating under a head of 650 ft., each wheel being direct-connected to a 600-KW. 450 revolutions per minute, generator, provided with an overload capacity of 1,200 HP. each. The power will be transmitted electrically and used in connection with dredging work on the Yukon River. Another order is that of the Empire Electric Power & Irrigation Co., of Empire, Colo., who will install under a head of 560 ft. a Pelton wheel of 1,000 H.P. capacity, direct-connected to a 450 revolutions per minute generator. The exciter will be mounted on the end of the alternator shaft. Power will be transmitted to the mines and mills in the vicinity of Empire, Colo. The Pelton company is letting contracts for its new works in the Mission district of San Francisco, which are to be much larger and equipped with the latest and best tools, and expects to be established there by July 1 of this year.

TRADE PUBLICATIONS.

VALVES, STEAM TRAPS AND STEAM SPECIALTIES.—The D. T. Williams Valve Co., 904 Broadway, Cincinnati, O. Two pamphlets; paper; 6 × 9 ins.; pp. 60 and 16; both illustrated.

The larger pamphlet is an illustrated catalogue and price-list of valves, unions, oil cups, etc., and the Cookson steam and oil separators and feed-water heaters. The smaller pamphlet is devoted to the Cookson steam traps and separators.

DIRECT CURRENT MOTORS.—Sprague Electric Co., 527 West 34th St., New York City. Paper; 8 × 10½ ins.; pp. 15. Bulletin No. 224. Illustrated.

Type D motors range from 10 to 90 HP. for standard slow speeds, and from 15 to 105 HP. for standard moderate speed motors. The frames are either closed or semi-closed and the operating voltages are 115, 230 or 500 volts direct current. Four other single sheets describe and illustrate the Sprague standard electric hoist.

PLASTER.—United States Gypsum Co., 200 Monroe St., Chicago. A set of pamphlets and booklets of various sizes.

These publications describe the different kinds of cement plaster and gypsum plaster made by this company, with particulars as to their preparation and use. One of the specialties is a plaster containing finely shredded wood fiber. The illustrations show a variety of buildings in which these materials are used. One booklet contains a statement from an architect to the effect that the plaster saved the Hotel Kanawha (at Charleston, W. Va.) from destruction by fire, and that the plaster ceilings, etc., were not damaged by the water. Its adhesive properties were shown by the fact that it was not necessary to restore the plaster in any part of the building.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 100.

REBUILDING AND REPAIRING SEWERS.

Office of the Board of Local Improvements, Kewanee, Ill., March 12, 1906.

Sealed bids will be received by the Board of Local Improvements of Kewanee, Illinois, at the City Engineer's Office, up to Seven (7) o'clock, P. M., March 22, 1906, for rebuilding and repairing certain sewers and appurtenances in "Lateral Sewer District B."

Plans and specifications for the work to be included in the proposed contract are on file at the office of the Board of Local Improvements and may be seen at that office.

Blank forms of proposal will be furnished by the Board, and must be used by bidder in rebuilding purposes.

Each proposal must be accompanied by a certified check for twenty-five (25) per cent. of the amount of the bid submitted, and the successful bidder must furnish to the City a solvent surety company bond for one-half (½) the amount of the contract.

The said contract will be prepared by the Board of Local Improvements and will contain such provisions as the Board deems necessary. All work included in the said contract must be completed on or before the first (1st) day of June, 1906. All payments will be made in cash on completion and acceptance of the work contemplated in the said contract and specifications.

The Board reserves the right to reject any or all bids.

By order of the Board of Local Improvements.

Dated Kewanee, Ill, March 12, 1906. 11-1t

SAMUEL BRADBURY,
Pres. Board of Local Improvements.

DEPARTMENT OF THE INTERIOR, Washington, D. C., March 9, 1906.—Proposals will be received at the office of the U. S. Reclamation Service at Hazen, Nevada, until 10 o'clock A. M., April 19, 1906, for the construction of about 145 miles of irrigation ditches, involving about 600,000 cubic yards of excavation, with structures and bridges, in Carson Sink, Valley, Nevada. Particulars may be obtained from the Chief Engineer of the Reclamation Service, Washington, D. C., or the Supervising Engineer, Hazen, Nevada. E. A. HITCHCOCK, Secretary. 11-4t

REPAIRING HEAT[illegible]G SYSTEM.

Sealed proposals suitab[illegible] dorsed on envelope for Repairs to He[illegible] System, Main Building, East Division, [illegible]hattan State Hospital, Ward's Island, [illegible] will be received up to 3 o'clock P. [illegible] on Wednesday, the 4th day of April, 1906, [illegible] the State Commission in Lunacy, at th[illegible]pitol, Albany, N. Y., when bids will be [illegible]ed and read publicly.

Drawings and specificat[illegible] may be consulted and blank forms of [illegible]posal obtained at Manhattan State Hospi[illegible] Ward's Island, N. Y. or by application to [illegible] Heins, State Architect, in the Capitol, a[illegible]bany, N. Y.

Contracts will be awarded [illegible] the lowest responsible and reliable bidde[illegible] unless the bids exceed the amount of funds [illegible]ailable therefor, in which case the right [illegible] reject all bids is reserved.

T. E. [illegible]GARR,
Secy. State Commis[illegible] in Lunacy.
Dated Albany, March 6, 1[illegible] 11-2t

DREDGING

Department of P[illegible] Works, Bureau [illegible] Surveys, Office, [illegible] City Hall, Philadelphia, M[illegible] 13, 1906.

Sealed proposals, endor[illegible] "Bids for Dredging," and addressed to [illegible] undersigned, at the office above-mentio[illegible] will be received until 12 o'clock, noo[illegible] on April 2, 1906, for Schedule A, Dredgi[illegible] the channel of the Delaware River.

Plans for the above work will be exhibited in the office of the Bureau of Surveys, Philadelphia.

Specifications and blank forms upon which bids must be made, will be furnished upon application to the Chief Engineer, Room 416 City Hall.

Bidders must be skilled and regularly engaged in the class of work bid for.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

Specifications are on file at the office of Engineering News, New York.

THOMAS L. HICKS,
11-3t Director.

GRAVITY YARD.

Peoria, Ill.

Bids are asked until noon, March 30, 1906, by the Peoria & Pekin Union Ry. Co., Peoria, Ill., for the construction of a gravity yard in East Peoria, containing 23 miles of tracks, involving about 140,000 cu. yds. of excavation and 2,000 cu. yds. of concrete. Plans and specifications can be seen at the office of STANLEY MILLARD, Ch. Engr., Room 31 Union Station, Peoria, Ill. 10-1t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C, March 1, 1906.—Sealed proposals will be received at this office until 3 o'clock p. m., on the 22d day of March, 1906, and then opened, for the vacuum cleaning system complete in place, for the U. S. Custom House building, Baltimore, Maryland, in accordance with drawing and specification, copies of which may be had at this office or at the office of Hornblower & Marshall, Washington, D. C., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 10-2t

FORT TOTTEN, N. Y., March 10, 1906.—WANTED.—Master Electricians for Coast Artillery, U. S. Army. Graduates of standard schools of technology or others of equivalent theoretical education, and three years practical experience with steam and electricity, under 33 years of age and unmarried. Pay and allowances as follows: Pay, $75.00 per month. Allowances: house, food, clothing, fuel, light, medical attendance, etc. After 30 years' service, retirement on three-quarters pay and allowances. For further particulars apply to SECRETARY, SCHOOL OF SUBMARINE DEFENSE, Fort Totten, N. Y. 11-2t

U. S. ENGINEER OFFICE, Pittsburg, Pa., March 12, 1906.—Sealed proposals for furnishing and erecting eight 85-B. HP. gas engines, and eight belt-driven two-stage air compressors, two of each at each of the following places on Ohio River: Dam 2, near foot of Neville Island; Dam 3, Glenosborne; Dam 4, Legionville, and Dam 5, near Freedom, Pa., about 9, 11, 18 and 25 miles, respectively, below Pittsburg, Pa., will be received here until 12 M., April 2, 1906, then publicly opened. Information furnished on application. WM. L. SIBERT, Maj., Engrs. 11-3t

U. S. ENGINEER OFFICE, 3232 Prytania St., New Orleans, La., February 28, 1906.—Sealed proposals for dredging channels at the mouth and inner pass of Calcasieu River, La., and for rebuilding rock revetment, will be received here until 11.30 A. M. March 28, 1906, and then publicly opened. Information furnished on application to this office. J. F. McINDOE, Capt., Engrs. 9-4t

WATER PIPE, SPECIALS AND WATER METERS.

Winnipeg.

Separate sealed tenders, addressed to Ald. J. C. Gibson, Chairman of the Fire, Water and Light Committee, for the supply of a quantity of water pipe and specials of various sizes and water meters for the City Water-Works will be received at the office of the undersigned up to 3.30 p. m., on

MONDAY, MARCH 26, 1906.

Specifications and forms of tender may be obtained at the Office of H. N. Ruttan, City Engineer, Winnipeg, Canada.

Each separate tender must be accompanied by an accepted cheque or draft, payable to the order of the City Treasurer, or cash deposit for the sum called for in the form of tender supplied, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract with approved sureties if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN,
City Clerk.

City Clerk's Office,
Winnipeg, March 1, 1906. 10-2t

WATER-WORKS.

Glendive, Mont.

Notice is hereby given, That; Sealed proposals for the construction of a water-works system will be received by the City Clerk of the City of Glendive, Montana, until 10 o'clock A. M., of the 19th day of March A. D. 1906, at which time they will be publicly opened and read.

The work will comprise six different portions, as follows:

1st: The furnishing of wood or cast-iron water pipe and special castings for the pipe system.
2d: The furnishing of fire hydrants.
3d: The furnishing of valves and valve boxes.
4th: The pipe laying.
5th: A steam pumping plant.
6th: A 300,000-gal. reinforced concrete reservoir and two 200,000-gal. reinforced concrete settling basins.

Bids will be received for any one or more of the above portions, and the right is reserved to let the work in separate contract as above divided or in one or more contracts as the Common Council may determine, and to reject any and all bids.

A certified check made payable unconditionally to the order of the City Treasurer of Glendive must accompany each bid and must be in an amount equal to 5 per cent. of the amount of the bid.

All bids must be made on blank forms furnished for that purpose.

Plans and specifications and blank forms of proposal may be obtained at the office of the City Clerk and at the office of Loweth & Wolff, Consulting Engineers, First National Bank Building, St. Paul, Minn.

Dated at Glendive, Montana, this 20th day of February A. D. 1906.

By order of the City Council of Glendive, Montana.

(SEAL) HANS J. HALVORSEN,
City Clerk.
9-3t

LAYING CAST-IRON PIPE.

Cincinnati, O.

Sealed proposals will be received at the office of the Board of Trustees, "Commissioners of Water-Works," of the City of Cincinnati, O., until 12 o'clock noon of Friday, March 23d, 1906, for the laying of two sections of cast-iron pipe.

The aggregate length of the two sections of the main to be laid is about 11,930 lineal feet of 60-inch cast-iron pipes.

Plans and profiles of the work and copies of the specifications, estimated quantities of the work to be done, form of proposal, forms of bonds, and form of contract, can be secured at the office of the Chief Engineer of the Board of Trustees, "Commissioners of Water-Works."

The bids shall be accompanied with bonds, certified checks, bank certificates of deposit or cash in the sum of $6,000.00 and $5,000.00, respectively, for the acceptance of the contracts, if awarded by the Board of Trustees, "Commissioners of Water-Works."

Bidders must furnish satisfactory evidence of their ability to do the class of work required.

AUG. HERRMANN,
President.

ELMER G. PRIOR,
Acting Clerk. 9-3t

OPEN INTERMITTENT SAND FILTERS.

Springfield, Mass.

Sealed proposals will be received until noon, March 19th, 1906, at the office of the Board of Water Commissioners, for work in connection with the construction of four open intermittent sand filters. Plans may be seen, and copies of the contract and specifications obtained, at the office of E. E. Lochridge, Engineer Water Department, 43 Bridge St., Springfield, Mass., or at the office of Hazen & Whipple, Consulting Engineers, St. Paul Building, New York City.

The work to be done is approximately as follows:

Excavating and placing 40,000 cubic yards of filter sand and earth work.
350 cubic yards of concrete masonry.
Laying 12,750 lineal feet of lateral drains.

Each bid must be accompanied by a certified check for $500, payable to the order of the Board of Water Commissioners.

The right is reserved to reject any and all bids.

E. E. STONE,
C. H. BENNETT,
FRANCKE W. DICKINSON,
Board of Water Commissioners,
9-3t Springfield, Massachusetts.

Plans and specifications may be seen at New York office of Engineering News, 220 Broadway.

CONCRETE MIXING MACHINE.

Sealed tenders addressed to the chairman of the Committee on Works for supply of Concrete Mixing Machine for the City Works Department will be received at the office of the undersigned up to 3.30 p. m., on

TUESDAY, MARCH 27, 1906.

The tenders must be accompanied by a full description and specifications, giving the size and capacity of the machine on which the bid is submitted.

Any further information required will be furnished at the office of the City Engineer, Winnipeg.

Each tender must be accompanied by an accepted check, payable to the City Treasurer, Winnipeg, at par, for a sum equal to 5 per cent. of the total amount of the tender which will be subject to forfeiture in case of failure to enter into a written contract with approved sureties if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN,
City Clerk.

City Clerk's Office,
Winnipeg, Man., Can., March 9, 1906. 11-1t

GONDOLA HOPPER DUMP CARS.

Sealed tenders addressed to the chairman of the Committee on Works for supply of six Gondola Hopper Dump Cars for the City of Winnipeg will be received at the office of the undersigned up to 3.30 p. m. on

TUESDAY, MARCH 27, 1906.

Description, capacity, cubic feet 800; capacity load, lbs., 80,000; size about 8 × 30 feet. Box arranged so that it can be increased in height to capacity of 1,140 cubic feet. Cars to be strictly self discharging of broken stone and coal, and to be fitted with air brakes complete.

Plans and complete specifications of cars to be submitted with bids.

Each tender must be accompanied by an accepted check payable to the City Treasurer, Winnipeg, at par, for a sum equal to 5 per cent. of the total amount of the tender, which will be subject to forfeiture in case of failure on the part of the contractor to enter into a written contract with approved sureties, if called upon to do so.

The city reserves the right to reject any or all tenders or to accept any bid which appears advantageous to the City of Winnipeg.

C. J. BROWN,
City Clerk.

City Clerk's Office,
Winnipeg, Man., Can., March 9, 1906. 11-1t

OFFICE CALIFORNIA DEBRIS COMMISSION, Flood Building, San Francisco, Cal., Feb. 28, 1906.—Sealed proposals for constructing spillway and placing large rock at Barrier, Yuba River, Cal., will be received here until 12 noon, March 30, 1906, and then publicly opened. Information furnished on application. WM. W. HARTS, Capt., Engrs., Secy. 9-4t

U. S. ENGINEER OFFICE, New London, Conn., March 1, 1906. Sealed proposals in triplicate for dredging in Thames River, Conn., will be received here until 12 o'clock, noon, March 31, 1906, and then publicly opened. Information furnished on application. C. F. POWELL, Lt. Col., Engrs. 9-4t

SEWERS, CASTINGS, ETC.

Office of the Board of Public Works,
Salt Lake City, March 6, 1906.

Sealed proposals will be received at this office until 3 o'clock p. m., Wednesday, April 11th, 1906, for the work of constructing all Pipe Sewers that may be ordered by the City Council from April 1st to October 31st, 1906. The approximate quantity of pipe to be furnished and laid, including excavation, manholes, flush tanks, etc., are as follows:

8-inch	75,000 linear feet
10-inch	2,400 linear feet
12-inch	1,600 linear feet

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.

F. J. LEONARD,
Chairman.

LOUIS C. KELSEY,
City Engineer. 11-3t

WATER PIPE, LAYING, ETC.

Office of the Board of Public Works,
Salt Lake City, March 6, 1906.

Sealed proposals will be received at this office until 3 o'clock p. m., Wednesday, April 11th, 1906, for the work of constructing all Water Mains that may be ordered by the City Council from April 1st to October 31st, 1906.

The approximate quantities of pipe to be furnished, including excavating, special castings, hydrants, valves, etc., are as follows:

6-inch	30,000 linear feet
8-inch	3,000 linear feet
10-inch	800 linear feet

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.

F. J. LEONARD,
Chairman.

LOUIS C. KELSEY,
City Engineer. 11-3t

ASPHALT PAVING, ETC.

Office of the Board of Public Works,
Salt Lake City, March 6, 1906.

Sealed proposals will be received at this office until 3 o'clock p. m., Wednesday, April 11th, 1906, for the work of grading, curbing and paving State Street, from Fourth South Street to Seventh South Street, and Fourth South Street, from West Temple Street to Second East Street.

The approximate quantities of work to be done are as follows:

Grading	14,000 cubic yards
Curbing	9,400 linear feet
Asphalt Pavement	36,000 square yards
Concrete Pavement	330 square yards

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.

F. J. LEONARD,
Chairman.

LOUIS C. KELSEY,
City Engineer. 11-3t

ROAD IMPROVEMENTS.

East Hampton, N. Y.

Sealed proposals for the improvement of approximately nineteen miles of roads will be received by the Commissioners of Highways of the Town of East Hampton, N. Y., at the East Hampton National Bank, until two o'clock P. M., Saturday, March 24, 1906, and then publicly opened and read. A certified check for $1,000, payable to Geo. A. Miller, Supervisor, must accompany each bid.

The commissioners reserve the right to reject any or all bids.

Plans, specifications, etc., may be seen after March 17 at the office of the Town Clerk at East Hampton, or at the office of the Engineers.

JAMES E. GAY,
JOHN S. PENNY,
FRANK S. BARNES,
Commissioners.

SWINBURNE & CLARK,
Civil Engineers,
156 Fifth Ave., New York. 11-1t

ASPHALT PAVING, ETC.

Office of the Board of Public Works,
Salt Lake City, March 6, 1906.

Sealed proposals will be received at this office until 3 o'clock P. M., Wednesday, April 11, 1906, for the work of grading, curbing and paving East Temple Street, from Fourth South Street to Ninth South Street.

The approximate quantities of work to be done are as follows:

Grading	10,000 cubic yards.
Curbing	8,000 linear feet.
Asphalt pavement	23,000 square yards.
Concrete pavement	1,100 square yards.

Instruction to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.

F. J. LEONARD,
Chairman.

LOUIS C. KELSEY,
City Engineer. 11-3t

CONCRETE WALLS, ETC.

ESSEX COUNTY PARK COMMISSION.

For the Construction of a Concrete Retaining Wall, Reinforced Concrete Stairway and a Concrete Parapet Wall at the Concert Grove, in the Southern Division of Branch Brook Park in the City of Newark, New Jersey.

Sealed proposals for the above work, endorsed with the above title, will be received at the office of the Essex County Park Commission, 800 Broad Street, Newark, N. J., up to 3.30 P. M., Tuesday, March 20th, 1906.

After March 10th plans can be examined and specifications obtained at the office of the Engineer, 60 Clifton Avenue, Newark, N. J.

Proposals must be submitted on the blank form furnished by the Engineer and enclosed in sealed envelopes.

Proposals must contain bids for all items and prices must be written as well as stated in figures.

The Engineer's estimate of the work to be done, by which the bids will be tested, is as follows:

385 cubic yards of Concrete Retaining Wall.
Reinforced Concrete Stairway (70 ft. wide).
480 lineal feet of Parapet Wall.

The above quantities are approximate only and The Essex County Park Commission expressly reserves the right of increasing or reducing any of the said quantities as in his opinion becomes necessary. A certified check for Five Hundred Dollars ($500.00), payable to The Essex County Park Commission, without any conditions endorsed thereon, must accompany each bid, and be forfeited by the successful bidder unless he enters into a contract should the same be awarded to him. The successful bidder will be required to furnish a bond, from a Guaranty or Trust Company of satisfactory standing to the Commission, in the sum of Three Thousand Dollars ($3,000.00) for the faithful performance of the contract.

The Essex County Park Commission reserves the right to reject any or all bids and retains the right to accept any bid which in its judgment is for the best interest of the County.

A. CHURCH,
Secretary, Essex County Park Commission.
11-1t

PIPE LINE.

Utica, N. Y.

Sealed proposals for the construction of the incompleted sections of the West Canada Pipe Line to West Canada Creek, between Prospect and Hinckley, N. Y., a distance of about 6,000 feet, will be received by the Consolidated Water Company, of Utica, N. Y., until March 26th, 1906, at the office of said Water Company, No. 234 Genesee Street, Utica, N. Y., at which time and place the proposals will be opened, and the award of the contract will be made to the lowest bidder acceptable to the Water Company, as soon thereafter as practicable.

All information in relation thereto may be had at the Water Company's office.

CONSOLIDATED WATER COMPANY,
Utica, N. Y.

Dated March 7th, 1906. 11-1t

ASPHALT PAVEMENTS.

Green Bay, Wis.

This city will open bids April 2d for construction of about two miles Asphalt Pavements. For particulars, address

W. W. REED,
10-2t City Engineer.

Specifications may be seen at the office of Engineering News, 220 Broadway, New York.

BRICK TUNNEL, WOOD STAVE PIPE AND STEEL PIPE.

Detroit, Mich.

The Detroit Sulphite Pulp and Paper Co., of Detroit, Michigan, ask tenders till 10 A. M., March 29, 1906, for:

475 lin. ft. 5-ft. diameter brick tunnel.

Laying 3,000 lin. ft. 40-inch wood stave pipe.

Laying 300 lin. ft. 40-inch steel pipe with intake crib.

According to plans and specifications on file at the office of French & Russell, Engineers, 505 Moffat Building, Detroit, Mich.

The company reserves the right to reject any or all bids. 11-2t

ARTESIAN WELL.

Galesburg, Ill.

Sealed bids will be received by the City of Galesburg, Illinois, until five (5) o'clock, P. M., April 16, A. D. 1906, for drilling an eight (8) inch well, according to plans and specifications on file in the office of the City Engineer. The city reserves the right to reject any or all bids. L. F. BROWN,
11-1t City Clerk

CEMENT WALKS.

Office of the Board of Public Works, Salt Lake City, March 6, 1906.

Sealed proposals will be received at this office until 3 o'clock p. m., Wednesday, April 11th, 1906, for the work of constructing all Cement Sidewalks that may be ordered by the City Council from April 1st to October 31st, 1906.

The approximate quantities of walk to be laid, including excavation, etc., are as follows:

Cement sidewalk pavement:
4 inches thick.....600,000 square feet
6 inches thick..... 30,000 square feet

Instructions to bidders, together with specifications and forms for contract and bond, can be obtained upon application at the office of the Board of Public Works or City Engineer.

The right is reserved to reject any and all bids.

By order of the Board of Public Works.
F. J. LEONARD,
Chairman.
LOUIS C. KELSEY,
City Engineer. 11-3t

IRON DRAWBRIDGE.

Belzona, Miss.

Bids will be received by the Board of Mayor and Aldermen of Belzona, Mississippi, up to Monday, April 30th, 1906, for the construction of an iron draw bridge across the Yazoo River at Belzona, Miss. Bidders must furnish their own plans and specifications. All bids must be accompanied by a certified check for 5% of the bid. For further particulars, address,

S. CASTLEMAN,
11-6t Mayor.

LARGE WATER POWER FOR SALE.

The Keewatin Power Company, Limited, will offer for sale at auction its developed Water Power on the West branch of the Winnipeg River, at the outlet of the Lake of the Woods, Town of Kenora (formerly Rat Portage), Ont., having the following characteristics:

Effective horse-power, 28,000; fall, 19 ft.; water supplied directly from the Lake of the Woods; entire immunity from ice difficulties of every kind; massive granite dam, on bed rock, foundation; 386 acres of land for utilizing power; direct connection with the main line of the Canadian Pacific Railway at Keewatin Station and direct navigation connection with the Lake of the Woods and Rainy River.

Sale will take place in the Russell House, Ottawa, Canada, on Thursday, 5th July, 1906, at 2 p. m. The sale will be subject to a reserve bid. Plans of the property and further information may be had from the undersigned.

JOHN MATHER, President Keewatin Power Co., Ltd., 453 Laurier Ave., E., Ottawa, Can., or R. A. MATHER, Manager, Keewatin, Ont., Can. 11-1t

BUREAU OF PORT WORKS, Manila, P. I., March 10, 1906.—Sealed proposals for the construction of two steel wharf sheds and wharf railways at Manila, P. I., will be received at this office until 11 o'clock a. m., May 4, 1906, and then publicly opened. Information furnished on application to this office, or to the Bureau of Insular Affairs, Washington, D. C. Plans may be seen at the above offices and also at the United States Engineer offices at Chicago, Ill., and San Francisco, Cal., and at the office of the Engineering News, and The Engineering Record, at New York. W. L. FISK, Lieut.-Col. Corps of Engineers, U. S. A., Director of Port Works, Philippine Islands. 11-3t

LAYING SUBMERGED INTAKE PIPE.

Auburn, N. Y.

Sealed proposals will be received by the Water Board of the City of Auburn, N. Y., up to 1 p. m., April 11, 1906, for laying about 1,850 lineal feet of 36-in. wrought-iron intake pipe with ball and socket joints in Owasco Lake, including dredging and backfilling of shore section. A lump sum bid required, with $50 per day time limit.

Specifications may be obtained at the office of the Water Board, Seward Bank Building, Auburn, N. Y.

J. LEWIS GRANT,
JOHN F. SKINNER, Superintendent.
Consulting Engr., Rochester, N. Y. 11-4t

TUNNEL, RAILWAY WORK, ETC.

Sealed proposals will be received by the President of the Morehead & North Fork Railroad Company at his office, No. 218 Girard Building, Philadelphia, until 12 o'clock noon, March 30th, A. D. 1906, for building complete, on the line of the Company's railroad in Rowan County, Kentucky,

A tunnel, about 1,300 ft. long.

Grading of line about one and one-third miles each way from the tunnel.

The proposal to be made in accordance with the maps, plans and profiles and specifications to be seen at the above address, or at the office of the Clearfield Lumber Company, Clearfield, Pa., or at the office of the engineer in Morehead, Kentucky.

Proposals shall be written upon a prepared form that will be furnished to bidders.

The right is reserved to reject any and all bids.

MOREHEAD & NORTH FORK RAILROAD CO.
E. W. HESS, Engineer,
Morehead, Kentucky. 11-1t

CONTRACTOR'S WORK.

Wanted to sublet:
150,000 cu. yds. steam shovel work.
200,000 cu. yds. scraper work.
4,000 cu. yds. concrete masonry.
Address, CHAS. FISK, JR.,
11-2t Jeffersonville, Ind.

DEPARTMENT OF THE INTERIOR, Washington, D. C., March 9, 1906.—Proposals will be received at the office of the U. S. Reclamation Service, Glendive, Montana, until 10 o'clock a. m., April 12, 1906, for the construction of about 26½ miles of canal near Glendive, Mont., involving the excavation of approximately 2,632,900 cubic yards of earth and 1,200 cubic yards of rock, and furnishing such material and doing such other work as may be necessary for the completion of the work. Particulars may be obtained by application to the Chief Engineer, U. S. Reclamation Service, Washington, D. C., or to the Engineer, Glendive, Montana. E. A. HITCHCOCK, Secretary. 11-4t

U. S. ENGINEER OFFICE, 415 Custom-House, Cincinnati, O., March 10, 1906.—Sealed proposals for constructing dam with abutment, and protection cribs; a dike, one dwelling house, one office building, two cisterns, and repairs to old dwelling and two outhouses at Lock No. 10, Kentucky River, at Ford, Ky., will be received here until 2 P. M., standard time, April 10, 1906, and then publicly opened. Information on application. J. G. WARREN, Major, Engrs. 11-4t

DEPARTMENT OF THE INTERIOR, Washington, D. C., March 1, 1906.—Sealed proposals will be received at the office of the United States Reclamation Service, Carlsbad, New Mexico, until 2 o'clock p. m., April 12, 1906, for the construction of a dam in Pecos River, Involving the placing of 75,000 cubic yards of earth, 40,000 cubic yards of rock fill, 12,000 linear feet of steel sheet piling, 3,300 cubic yards of rubble concrete, and the furnishing and placing of about 219,000 pounds of steel, in connection with the Carlsbad Project, New Mexico. Specifications, forms of proposal and plans may be obtained from the Chief Engineer of the Reclamation Service, Washington, D. C., or from the Supervising Engineer, Carlsbad, New Mexico. E. A. HITCHCOCK, Secretary. 10-4t

U. S. ENGINEER OFFICE, 22d and K Sts., N. W., Washington, D. C., March 5, 1906.—Sealed proposals for dredging in Breton Bay, Md., and in Mattaponi and Pamunkey Rivers, and Occoquan and Carters Creeks, Va., will be received here until 12 m., April 4, 1906, and then publicly opened. Information on application. SPENCER COSBY, Capt., Engrs. 10-4t

NOTICE TO CONTRACTORS.—Sealed bids for constructing about 1,600 linear feet of brick and concrete sewers, mostly with internal diameters of 3 ft. 6 ins. and 4 ft. 6 ins.; in Canal, Market, Portland and Hanover Streets; will be received by the undersigned at 15 Beacon Street, Boston, Mass., until 12 o'clock M. of Thursday, March 29, 1906. Plans can be seen and specifications and forms of contract can be obtained at 15 Beacon Street, 9th floor. The right to reject any and all bids and to award the contract as is deemed to be for the best interest of the city of Boston is reserved. By order of the BOSTON TRANSIT COMMISSION, B. LEIGHTON BEAL, Secretary. 11-2t

INCINERATING PLANT.

Tampa, Fla., March 7, 1906.

Proposals for the construction of an incinerating plant for the disposal of garbage, capacity not less than 100 tons per 24 hours, will be received by the Board of Public Works, Tampa, Florida, on or before April 1, 1906. W. R. FULLER.
Attest: S. L. BIGLOW, Pres.
Clerk. 11-2t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., March 9, 1906.—The time of opening proposals for conduit and electric wiring system, Post Office and Court House, Ogden, Utah, is extended from March 14, 1906, to March 27, 1906. JAMES KNOX TAYLOR, Supervising Architect. 11-1t

Situations Open

WANTED.—Two templet makers experienced in bridge and structural work. Steady work and good pay to experienced men. Address BERLIN CONSTRUCTION CO., Berlin, Conn. 11-2t

WANTED.—Runners for floating steam dredges on ditch work. None but sober men need apply. Address O. F. DOYLE, St. Cloud, Minnesota. 11-3t

WANTED.—Graduate civil engineer of good address to estimate and solicit reinforced concrete work; must be systematic and accurate; at least four years 'experience necessary in building engineering. Preferred age 26 to 30 years. TURNER CONSTRUCTION COMPANY, 11 Broadway, N. Y. City. 11-1t

WANTED.—Railroad draftsman. One familiar with track work. In New York City. Address "A. B. 11," Engineering News, New York. 11-2t

YOUNG ENGINEERS wanted as timekeepers on water-works and reinforced concrete building. Apply BELL ENGINEERING & CONSTRUCTION CO., 220 Broadway, New York. 11-1t

REINFORCED Concrete Engineer wanted; state salary and experience in detail. Address "H. B. 11," Engineering News, New York. 11-1t

WANTED.—Structural draftsman and designer, young man graduate American University, willing to start at moderate salary. Good opportunities for advancement to right party. Old established concern. Location, Chicago. Address "STRUCTURAL," 1636 Monadnock, Chicago. 11-1t

WANTED.—Draftsman on water-works piping system maps; one with some knowledge of field work preferred. Position permanent. Salary, $55 per month. Address AMERICAN PIPE MFG. CO., Operating Department, 112 North Broad St., Philadelphia. 11-1t

WANTED.—A civil engineer on building construction and repair work. State experience and salary wanted. Address "G. B. 11," Engineering News, New York. 11-1t

WANTED.—Assistant civil engineer for railroad work in Middle West. Must be well recommended, and be able to show results in the design and execution of work. Salary, $125. Address "K. A. 11," Engineering News, New York. 11-2t

RODMEN WANTED.—College men for work on an eastern railroad. Address "C. 11," Engineering News, stating age, education and experience. 11-1t

Situations Open

Contractor and financier, who is forming stock company, is desirous of associating with him a thoroughly up-to-date Contractor and Superintendent, with established reputation as to work done.

Also, a thoroughly practical Engineer, experienced in contract work. Both of the above to be men of large acquaintance in the line of getting desirable contracts, and preferably to be able to invest $10,000 in the business. I will borrow to finance the company, the main office of which will be located in New York City. Give full and detailed information in answering. Replies will be considered confidential and returned if so requested. Address, "M11," Engineering News, New York. 11-2t

DRAFTSMEN.—Wanted, three or four first-class detailers on steel [illegible] and roof trusses. State [illegible] and salary expected. A[illegible] Engineering News, New [illegible] "A. 11." 11-1t

DRAFTSMEN, checkers [illegible] estimators wanted on structural steel [illegible] for buildings. Apply by mail [illegible] giving age, nationality, education, [illegible] salary expected. POST [illegible] McCORD, 44 E. 23d St., New York. 11-1t

DRAFTSMAN.—Wanted by [illegible] building elevating and conve[illegible] Experience in line specif[illegible] machinery but not absolutely essen[illegible] desirable. high grade men need ap[illegible] None but perience, salary expected [illegible] State liberty. Address "B. 11[illegible] when at News, New York. 11-1t

DRAFTSMAN with several [illegible] experience in structural steel des[illegible] UNIT CONCRETE STEEL FRA[illegible] CO., 1413 Commonwealth Bldg., Phi[illegible]phia, Pa. 11-1t

FOR SALE

One set heavy plate bendi[illegible] rolls, take 18 feet 2 inches between ho[illegible]ngs. Will roll one-inch plate. Weight [illegible]bout 80,000 pounds. In first-class cond[illegible]n. Hilles & Jones Co.'s make. Immedi[illegible] shipment. For further particulars apply to or address

11-1t GEO. E. AFFLECK
107 Liberty Street, New York City

FOR SALE
WHOLE OR PART INTEREST, LARGE STRUCTURAL SHOP

employing from 50 to 100 men. Centrally located.

Address "L. A. 11," Engineering News, New York. 11-1t

FOR SALE

Delivery f.o.b. Erie or O. & W. Cars

8 Dump Wagons.
9 Side Dumping, 18-in. gauge, 2 yd. Cars.
4 Rand Drills, size 3¼-in.
1 Rand Rid Drill, with all appurtenances.
18 Nos. 2 and 3 Wheelers.
Complete Castings for one Steam Derrick.
Lot of Slushers, Carts, Plows, etc.

Write A. E. GODEFFROY,
11-4t Godeffroys, Orange County, N. Y.

Miscellaneous Wants

50,000 BARRELS PORTLAND CEMENT wanted for Chicago, St. Louis and Kansas City delivery this year. Address Chicago, St. Louis and Kansas City offices THE PARKER-WASHINGTON CO.
11-1t-16-1t-20-1t 25-1t

FACTORY SITE WANTED

Five to ten acres for machine and structural shop. Western Pennsylvania or Ohio preferred. Give full particulars, map of property and railway facilities. Catalogues for equipment wanted.

Address MANUFACTURER, care of Lord & Thomas, 150 Nassau Street, New York. 11-1t

CAPITAL WANTED

to join in reinforced concr[illegible] business. Valuable patents. No agents.

Address "Z. B. 11," Engineering News, New York. 11-1t

TO CONTRACTORS

As we are retiring from contract work, we wish to sell our large quarry that is now running on Crushed Stone. Output of quarry sold for two years ahead. 11-3t

GLEAVES & CO., Lynchburg, Va.

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23—Laying
24—Turbo
26—Cast-i.
26—Pump
28—Paving.
29—Sewers.
•30—Bridge.
•30—Lock g
31—Power
31—Timber
31—Power
31—Quay w

Apr.
•1—Garbage
•2—Dredgin
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3—Suction
5—Wharve
7—R. R. t
•9—Wharf.
•11—Sewers.
12—Cement
•12—Dam.
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14—Paving
14—Wharf.
•16—Main
16—Light
•19—Sewers

May
4—Wharf

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